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Critical Micelle Concentrations of Aqueous Surfactant Systems

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Critical Micelle Concentrations of Aqueous Surfactant Systems

Pasupati Mukerjee* and Karol J. Mysels**

Critical micelle concentrations (CMC's), have been collected, organized and evaluated. The literature has been scanned for numerical values from 1926 up to and including 1966. In addition, over 800 values, hitherto available only in graphical form or implied in experimental data, have been extracted from the publications and are included. Close to 5,000 entries, based on 333 references, dealing with 720 compounds are tabulated in the main tables. Whenever available, the temperature, any additives present, the method of determination and the literature source are given for each CMC value and an indication of the apparent quality of the preparation and method used are included. A shorter table gives selected values which are believed to be particularly reliable, including highly accurate ones. Among these, concordant values from at least two independent laboratories are emphasized.

Included in the Introduction is a general discussion of the importance and significance of CMC values and of methods for their determination, as well as a summary of the procedures used in the collection, evaluation and presentation of these values in the present work. Extensive indexes are provided.

Key words: Association colloid; bibliography; CMC; colloid; colloidal electrolyte; critical concentration; critical micelle concentration; detergent; hydrophobic bonding; Krafft point; long chain compounds; micelle; paraffin chain salts; selected values; soap; solubilization; standard values; surface active agents; surface chemistry; surface tension; surfactant.

1. Introduction

Critical micelle concentrations are here to stay! This conclusion is evident from figures 1 to 3 which are based on the literature used in this work. They show a continuing growth since the middle thirties in the number of articles appearing each year which contribute new values and in the number of new values reported. The number of new values per article seems to have passed its peak, which suggests more careful and critical work in recent years.

The reason for this growth is that a critical micelle concentration (CMC) is probably the simplest means of characterizing the colloid and surface behavior of a surfactant solute, which in turn determines its industrial usefulness and biological activity, and gives a measure of the structurally interesting solute-solvent and solute-solute interactions. However, these published CMC values are widely scattered through the literature—we have consulted 87 different publications—and vary greatly in quality from clearly erroneous data to highly accurate values.

Furthermore, some of the existing values are clearly tabulated, but others—often the best ones—are hidden in graphs, or even in tabulations of some

measured property such as conductivity. These require considerable effort and judgment to retrieve. Frequently, the quality of the work cannot be judged without consultation of several references and intercomparison with other pertinent publications. Hence, much of the literature is not now readily accessible or useful to those interested in learning what has been established thus far.

The primary purpose of this publication is to provide a list of values in which the user can place high confidence. In the process of obtaining these, we had to make a survey, as complete as possible, of all available values. To present the results of this survey so as to make both the literature and the results contained therein readily available became, therefore, a secondary objective. Perhaps the best evidence for the usefulness of this effort is that nearly two-thirds of the best data reported herein were not previously directly available in the literature but required at least some, and often quite extensive, interpretation of a publication or individual correspondence.

The book itself is divided into four parts:

(1) The Table of Recommended and Selected Values lists the values we believe to be most reliable. They contain further guides to the quality of the data.

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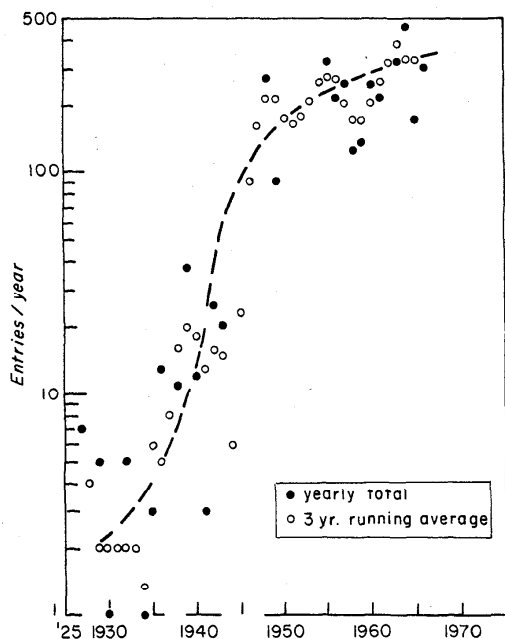


FIGURE 1. Number of entries for the complete tables originating within each year from 1927 to 1966. There are no entries in 1928, 1931, 1933, 1934, 1937 and 1945.

(2) The Complete Table contains all values found which were published through 1966.

(3) Several indexes and lists, particularly the compound indexes, should permit the reader to find any desired compound or its closest analogs, give him the meaning of any abbreviation or symbol, and also guide him to the pertinent literature.

(4) The Introduction discusses the thoughts that went into the collection, evaluation, and presentation of the data. A glance at "How to Use These Tables" may be helpful before consulting them.

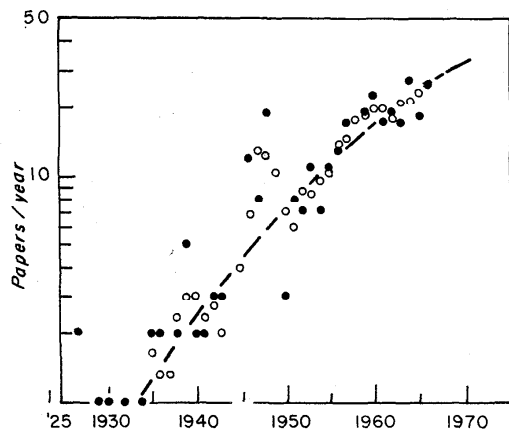


FIGURE 2. Number of papers containing at least one entry for the complete tables originating within a given year.

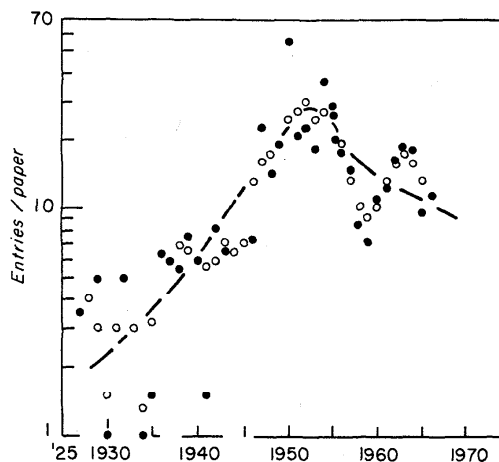


FIGURE 3. Average number of entries per paper containing at least one entry within a given year and within a three year period.

The largest number of entries from a single paper was 167, from reference 55004.

We hope that this work will make us more friends than enemies. We tried to be objective in the evaluation of the data, but some errors and personal prejudices are unavoidable. Our evaluation procedure of the individual data is described in the introduction, which contains also general considerations about the validity and significance of the various methods of determination.

We are grateful to many who have helped us in this work. Close to a hundred authors have responded to our request for reprints and many have provided additional comments, data, and interpretations. Dr. Edward L. Brady was most helpful in getting us started properly in the task of handling this multitude of data. Dr. H. J. White's patience and cooperation are greatly appreciated. The extensive computer handling of the data was made possible by the free availability of the data processing facilities of the R. J. Reynolds Tobacco Co., and the programming skill and understanding of Mr. Bill Donovan. Several secretaries have been involved in the careful verification of the hundreds of thousands of bits of information recorded. Mrs. Jerry Wilson and Miss Judy Tate were particularly involved in the final stages. The work leading to this publication was begun in 1964 at the University of Southern California under contract with the National Bureau of Standards and continued there until September 1966 when the authors transferred to their present connections with the University of Wisconsin, where the support of the National Bureau of Standards continued, and the R. J.

Reynolds Tobacco Co. Clearly, the resources of these three institutions made the completion of our work possible.

2. How to Use the Tables

This section presents a brief guide to the admittedly complicated arrangement of the tables. Space and computer requirements dictated much of this complexity; some is inherent in the dissimilarity of the compounds and the variety of conditions used for CMC determinations. The guide is arranged to answer a series of questions which may be raised by readers.

How do I find the compound I am interested in? In the tables the compounds are arranged in numerical order by arbitrary "Compound Numbers." To find this number you must go through the "Compound Index" in which the listed compounds are arranged by structure. There are five parts to this index (plus an alphabetical one for commercial names) and in each the compounds are listed according to different structural properties. These arrangements are described on the first page of the compound index (p. 23).

What can I do if my compound is not listed? The indexes will lead you to the most closely related compounds that are listed. These should permit you to make a good guess by interpolation and extrapolation.

How do I learn about the effect of an additive? The names of additives are abbreviated (if the abbreviation is not clear, its meaning can be found in the list on p. 222). Surfactant additives are indicated by their "Compound Number." For each compound, CMC values in the presence of additives are listed after the simple (surfactant-water) system in alphabetical order of the abbreviations. This is followed by systems with two additives and then by those with three additives.

What if the additive is not listed with my compound? The additive index shows all the compounds reported for any additive. You may find some useful analogies in this way.

What is the effect of temperature? Within each system (compound-additive(s)) the values are arranged by increasing temperature. By checking the author, or better the reference column, you can locate groups of values that were obtained specifically to show the effect of temperature (which is often small).

Which are the "good" CMC values? The shorter tables beginning on page 51 contain the "Selected" and "Recommended" values (15% of all reported values). Those that carry a "1" in the last column have been independently confirmed and should be highly reliable (to 1.5%, keeping in mind that different methods can give significantly different values—cf. p. 11). Those marked "2" are of the same apparent quality but lack confirmation. Among those marked "D" for each system, there is probably one that is as good as those of the preceding categories, but we do not know which. The many marked "3" do not seem to be in the same class but should be good to 10 percent.

What do I find in the long tables? These tables beginning on page 66 contain all the "Recommended and Selected" values plus all the others that we have located. In a number of cases, indicated by "R" in the last column, we make references to the literature where additional data or calculated values may be found or to warn the reader that the values are duplicates of those already listed or are in error. The bulk of the values carry an "L" in the last column. These may be useful and some may be excellent but we could not "recommend" or "select" them for a variety of reasons. Some clue to these reasons may be found in the "quality" column.

What is the "quality" column? In this column the first letter refers to the material and the second to the measurement. The meaning of the letters may be found on page 6. In general the quality decreases in alphabetical order. It represents our opinion after a careful study of the reference.

Are there more data in the literature? Our search does not cover anything published in 1967 or later (including the 1964 Congress of Surface Activity which did not appear in print until 1968). There are also older references that we may have overlooked. All the references within this field that we have scanned are listed in the literature index starting on page 213 whether they have yielded any entries or not. We would like to be informed of overlooked articles. Some of the literature scanned does contain data which, if properly interpreted, could lead to a CMC value which is not included. We have made such interpretations in many hundreds of cases, but not always. However, if a CMC value was mentioned as such in the article, we have tried to include it in all cases.

What are those various "methods"? The "method" column contains generally an abbreviation of the

method by which the CMC value was obtained. These methods are discussed briefly (and their abbreviations given) on pages 8 to 11. The "methods index" lists the references which have used each. These references should be consulted for details.

Occasionally the methods column contains information about the literature or a cross-reference. This is only the case when the entry does not give a CMC value.

In what units are the CMC's? We have followed the references except for order of magnitude conversions (e.g., from millimoles to moles) and as a result have a large number of units. The meaning of the abbreviations is given on page 222 and in the footnote to the table. For noncommercial compounds, for which a molecular weight is likely to have meaning, we have added a value in moles (per liter or kg of solution or kg of solvent) when the corresponding weight concentration of the compound was given. This was done by the computer on the basis of the molecular weight listed for the compound which in turn was also obtained by the computer from a structural or empirical formula of the compound. The value is printed by itself on a separate line below the value given by the author and is characterized by "M" in the "source" column.

What units are used for additives? The same units and symbols as for CMC's plus a number of others, including such peculiar ones as pH, again following the authors. In addition, we have used the additive columns to record certain special conditions such as pressure. The meaning of the abbreviations is listed on page 222. For additives we have not made any conversions to mole units.

What compound nomenclature is used? We have generally followed the first author whom we encountered dealing with the particular compound in the hope that this will also be the most common and understandable name. In case of ambiguity or some exotic names, we have added an alternative name or a formula in parentheses.

Are there any values for solvents other than water? If the solvent is a mixed one including water, the other components have been considered as additives. Nonaqueous systems have not been included for reasons discussed on page 18 with the exception of D₂O which is treated as an additive at 100 mole percent concentration!

What is the meaning of "source"? This column serves to indicate in what way the pertinent CMC value was obtained by us. The meaning of the abbreviations is listed on page 222. In some cases the

reader can check our listing directly or after carefully reading a graph or replotting some numerical data. In a few cases, however, our listing is based not only on what appears in the article but on correspondence or conversation with the authors. In this case an L in the source column is given. We have not included, however, values made available to us privately which did not have a basis in the published literature.

Where do these CMC's come from? The exact reference may be found in the Reference index starting on page 213 through the number in the "reference" column of each entry. However, much information can be obtained from this number itself since the first two digits give the year of publication and from the "authors" column which carries the first four letters of the name of the author or two of the authors of that publication. Particularly for those familiar with the field, this should often permit identification of the reference.

Are the numbers of digits really significant? Not in the great majority of entries. We have again followed the authors for the sake of the record and it is clear that most authors paid no attention whatsoever to the rules pertaining to significant figures. A better idea of the precision of the values is given by our "quality" rating of the method (second letter). See page 6 for the approximate meaning of these letters. When the value quoted is obtained by ourselves from published graphs, etc., the significant figures refer to how well these graphs could be read or interpreted without digging further into the uncertainties of the experiment.

3. Usefulness of CMC Value

The expression critical micelle concentration (CMC), as will be discussed later, is slightly misleading because of the use of the singular form of the noun "concentration." The formation of micelles from the constituent monomers involves a rapid, dynamic, association-dissociation equilibrium. Experimentally, it is found, in accord with the expectations from such equilibria, that micelles are undetectable in dilute solutions of the monomers, and become detectable over a narrow range of concentrations as the total concentration of solute is increased, above which nearly all additional solute material forms micelles. The concentration at which the micelles become first detectable depends on the sensitivity of the experimental probe used. The concentration range over which

the fraction of additional solute which forms micelles changes from nearly zero to nearly unity depends on such factors as the number of monomers in the micelle, the chain length of the monomer, the properties of counterions and other details affecting the monomer-micelle equilibrium. An approximate rule is that the higher the CMC value, the broader is the concentration range over which this transition takes place, in absolute value as well as in relative value in comparison to the CMC. Since different experimental methods may reflect this transition to different extents, some systematic variations in operationally defined CMC's are expected, as discussed in more detail later (p. 11).

Nevertheless, in spite of these various sources of uncertainty in defining and pinpointing the CMC exactly, the range of uncertainty is often no more than ± 1 to 2 percent of the CMC value. Thus, the CMC is a quantity which can be, and often is, determined experimentally to a much higher precision and accuracy than nearly any other property which is characteristic of solutions of surface-active agents, a point we would like to emphasize strongly. For comparative purposes, in careful work, the precision is often within ± 1 percent.

The usefulness of CMC values in various qualitative and quantitative investigations involving surfactant solutions arises basically from the fact that the surface and interfacial activity of the amphipathic (polar-nonpolar) monomers is closely reflected in the value of the CMC. The tendency to form micelles arises mainly from the presence of a hydrophobic part in the amphipathic monomers. The role of the hydrophilic part, nonionic, zwitter-ionic, or ionic (with associated counterions), which is essential for conferring enough of a solubility to the hydrocarbon chain so that CMC values can be reached or exceeded, is essentially a negative one as far as the stability of micelles is concerned. The same factors are involved qualitatively in the surface activity of the monomers, irrespective of whether the surface is an air-water interface, oil-water interface, or a nonpolar solid-water interface. There is thus an excellent correspondence between the adsorbability of the monomers, their ability to reduce surface and interfacial tensions, and the value of the CMC [1, 2].¹ The more surface active the monomer is, the higher is the tendency to form micelles and the lower the CMC value. Since above the CMC the monomer activity rises only very

slowly, the CMC is also a measure of the concentration at which the thermodynamic activity of the monomer and, therefore, its net surface activity and adsorbability to various substrates, level off to nearly constant values [1-3]. In closely comparable systems, particularly if the hydrophilic moiety of the monomer is kept the same and the hydrophobic part is varied, there is a considerable similarity in the amount of adsorption to air-water and oil-water interfaces at concentrations close to the CMC. It is thus often possible to obtain rough estimates of equilibrium monolayer concentrations from the CMC values in homologous systems [1-3].

Since adsorption from surfactant solutions is involved in widely ranging systems of technical importance such as foams, froths, emulsions, suspensions, and surface coatings, CMC values are important in a wide variety of industrial operations [4, 5].

In striking contrast to monomers, the micelles, which have a hydrophilic exterior, are not surface-active. As a result, above the CMC, excepting in some cases where small micelles form and the monomer activity increases appreciably, the surface and interfacial tensions decrease very little [1, 2, 6]. The CMC, therefore, indicates the concentration at which surface and interfacial tensions reach, approximately, their lowest values. Characteristic values at room temperature are often about 35 dyn/cm for surface tensions and 5 dyn/cm for interfacial tensions.

The CMC, of course, is the concentration at which the micelles make their first appearance. Micelles provide in many ways one of the most convenient systems available to study in depth the properties of colloids. As the properties of micelles depend on micelle-medium interactions and also micelle-micelle interactions, to understand the former without the latter complication, it is necessary to extrapolate properties of micelles to a point where micelle-micelle interactions become negligible. The corresponding extrapolation of preformed colloidal systems, such as polymers or proteins, which do not dissociate on extensive dilution, is made to "infinite dilution." For micellar properties, the CMC serves as a convenient point for extrapolation, i.e., "infinite dilution" for micelles. Just as binary protein-protein interactions (i.e., those involved in second virial coefficients) are experimentally determined from the slopes of curves as they approach infinite dilution, so in micellar

¹ Italicized figures in brackets indicate the literature references on page 20.

systems, the corresponding concentration range is the one just above the CMC [7-10].

In systems involving solubilization of an additional component or its distribution between the bulk solution and the micelle, the CMC again is a measure of the concentration at which such phenomena become first apparent. It will be discussed later that the addition of the third component may modify the CMC itself to some extent and, therefore, the CMC of the system in presence of the third component is the value to be used. The change in the CMC, however, is often small.

In situations where a quantitative estimate of the amount or concentration of micelles is desired, for example, in estimating solubilizing powers, or the effect of micelle concentrations on the chemical reactivities of constituent monomers or solubilized species, an area of research which is of considerable current interest [11-15], the CMC again serves the purpose of giving a rough estimate of the monomer concentration in the solution. The micelle concentration in equivalents, therefore, can be closely approximated as the total concentration minus the CMC.

For the quantitative study of the thermodynamics of the interactions involved in the monomer-micelle equilibrium, the CMC is of paramount importance [16-21]. Although considerable uncertainties still exist with regard to the proper means of estimating the charge effects in ionic micelles, for uncharged systems the CMC itself gives an approximate quantitative measure of the standard free energy of formation of micelles. These free energies and other derived thermodynamic quantities are of great potential and actual use in understanding hydrophobic interactions in general [22-24]. Such interactions are involved in a wide variety of biochemical phenomena, e.g., the stability, structure, conformation, and activity of proteins, enzymes, and membranes. With ionic micelles, as mentioned before, the calculation of thermodynamic quantities characterizing the various interactions is not on sure ground as yet. For comparison of related systems, however, e.g., in noting the effect of varying the chainlength, salt concentrations, or counterions, the CMC provides quite a good quantitative measure of the changes as they affect the monomer-micelle equilibrium [8, 18, 25].

4. Evaluation

An important part of this work is the evaluation of the data presented. We hope to guide the reader to those data that are most useful and reliable in our considered judgment and also to show him other values that exist in the literature so that he may make more easily his own evaluation. We also tried to indicate the relevant literature and data that we have considered but not used in final listings.

We divided our evaluation into two steps: one, which we may call the individual or preliminary evaluation; the other, the comparative evaluation. The former represents our opinion on the basis of the individual paper (and its references or related papers of the same author); the latter is based on intercomparison of all the available data for a given compound under the same, or closely related, conditions. The former was done as the work progressed over a period of three years, 1965-68, and, therefore, is subject to the drift and development of our ideas and skills during that time. The latter was done in a short period of time after all the data had been collected and sorted by the computer.

Individual evaluation. A preliminary separation involved the question whether a given CMC value should be reported in detail or not. Values which are indicated in the article as being duplicates of other published values are omitted completely. Others, however, which are clearly duplicates but not explicitly indicated as such by the authors, are mentioned as "VALUES FROM REF IN CMC," with the article from which they are taken listed in the column in which the CMC is normally found.

Values which could not be retrieved profitably, e.g., those in the form of small-scale graphs or summarizing equations, are indicated as "GRAPH DATA NOT RETRIEVED" and "SUMMARIZING EQN ONLY" for the reader who wishes to examine them himself. There are 41 entries in the former category and 22 in the latter.

Once a value was included explicitly, we attempted to evaluate the purity of the materials and the accuracy and precision of the method used. These were noted separately as reported in the "Quality" Rating columns. The meaning of the symbols is as follows:

MATERIAL	METHOD
A Highest purity—not likely to be significantly improved in the future	precise to about 1% accurate to 1.5%

B Very pure but may still contain significant traces of impurities	precise to about 2% accurate to 3%
C Purified but likely to contain significant impurities	precise to about 3% accurate to 5%
D Compounds purified without special precautions against surfactant impurities	precise to about 10% accurate to 10%
E Good quality mixture of head groups	order of magnitude
F Good quality mixture of homologues	wrong
G Not purified	likely presence of systematic errors of uncertain absolute and relative magnitude
H Commercial surfactant material	
P High purity claimed without supporting data	
Q	theoretically calculated
X No information given	

These ratings should be taken with certain reservations, both because of the possibility of personal bias and of the frequent lack of all the information required to form a definite opinion, and the unavoidable lack of consistency over the four-year span during which they were being assigned. All that can be said is that they represent our best opinion at the time of a detailed reading of the article cited. Because the evaluation was individual, it is not surprising that upon later comparative evaluation, some values which were initially ranked high appeared more questionable or vice versa. Hence, the ratings are at best meaningful to plus or minus one category. We may mention, however, that during the final evaluation we frequently referred to the original papers, and only in two cases did we feel the need to change the preliminary ratings.

Comparative Evaluation. This evaluation was performed after all the data were collected and classified by the computer into the form of the "Complete CMC Listing" of this report. This permitted easy intercomparison of values reported for the same or similar systems. Each value was then assigned to one of a set of categories. This assignment also formed the basis for obtaining the "con-

firmed," "recommended," "disputed," and "selected" values for a separate listing.

The following categories were used:

1-Confirmed.—Values from at least two independent laboratories which are of good quality both with respect to materials and methods and which agree within the expected limit for a given method or between methods. These may be used with high confidence.

2-Recommended.—Values of the same quality as above but lacking independent confirmation.

D-Disputed.—These are values which seem as accurate as the preceding ones, but disagree by more than would permit them to be classified as "confirmed." It is likely that one of the values is correct but we did not have a firm basis for deciding which. In some cases correlation with values for other systems indicated a definite choice and the preferred value was assigned a "2," i.e., "recommended" rating, and remaining values were assigned the "L" or "literature" rating.

3-Selected.—These are values which do not appear to have the accuracy of the above categories but should still be of considerable utility. We feel that they are probably within 10 percent of the "true" value, as measured by the same approach. Their total number is less than 10 percent of all the entries, and they represent the next most reliable group after (1) and (2).

L—Literature.—This category includes the great majority of the values. They are provided for bibliographical completeness and because some readers may prefer any value—no matter how unreliable—to no value at all. Some of these values may be accurate, but there is insufficient information to certify that this is the case. Some will turn out to be off by orders of magnitude. In some cases where the literature provided *prima facie* evidence that the CMC value was erroneously assigned, we have indicated this by the statement "QUESTIONABLE CRITERION" in the "method" column.

P—Preferred.—Occasionally, widely differing values have been reported for what should be a single CMC. The reader's choice can generally be guided by the quality rank assignment to the compound and method. In a few cases we thought it advisable to indicate the preferred value by a P. These data did not qualify for one of the "selected" or "recommended" categories, but seem to be clearly preferable to the others.

R—Indicates a literature reference in which the reader may find a value not tabulated by us. A

statement in the "methods" column indicates whether the reason for omission is that we considered it a duplication (without explicit reference) of a value from another publication, or a value which could not or should not be listed.

X—Indicates a cross-reference within our tabulation and is used for mixed systems of surfactants which are reported only once under one compound but cross-referenced under the others.

In deciding about the probable accuracy of a CMC value we considered not only the details of the particular measurement but also the general validity and limitation of the method used. It may, therefore, be appropriate now to review briefly the multitude of these methods and then to consider some factors which guided us in judging their intrinsic accuracies.

5. Methods of Determining CMC's

Although abrupt changes in the concentration dependence of several properties of several surfactant solutions had been observed before the 1930's [26–28] and the concept of micelles in such solutions had been developed by McBain and coworkers [29, 30], the existence of a narrow concentration range, called "the critical concentration for micelles" [31], below which the solution contains negligible amounts of micelles and above which practically all additional surfactant is found in the form of additional micelles, was established by Bury and his coworkers [31, 32] and Hartley and his coworkers [33] in the early 1930's. Since that time, CMC determinations have multiplied and the results have been used in a variety of ways. The importance of a definite CMC value to which micellar properties could be extrapolated so as to give the infinite dilution behavior of micelles was emphasized by Debye soon after World War II [34].

In the process of collecting the present data we have distinguished 71 methods of determining the CMC, ranging from a few widely used ones to a few reported only once. These may be grouped as follows, with the numbers in parentheses giving the number of CMC's in this report for each method or group of methods. Experimental details of these methods may be found by following the references given for each in the index to methods.

The entry "METHOD NOT CITED" (128) in most cases refers to just that, when a CMC value appears with no further indication. In a few cases,

however, it results from the fact that the article is not clear as to which of two or three well-defined methods was used in determining each individual value. One or two of such cases deserved, in our opinion, enough confidence to be included among "selected" values.

Also in a special category is the THEORETICALLY ESTIMATED (5) entry which we included for completeness.

The other methods can be divided into two broad classes depending on whether another material is added to the system specifically for the purpose of the measurement (as opposed to an additive whose effect is being studied). They are at present all based on the study of a property of the system as some function of concentration and detection of a particularity, such as a change of slope or a discontinuity, at the CMC.

Methods Requiring No Additive

1. SURFACE TENSION (940). This method of increasing popularity involves the measurement of surface tensions of solutions by a variety of methods which we did not attempt to classify (such as the du Nouy ring detachment method, the Wilhelmy plate equilibrium or detachment, drop weight or volume or shape). The data are generally plotted against the logarithm of concentration—LOG PLOT (843)—as the abscissa and the transition between a descending line (often assumed to be straight) and another one close to the horizontal is taken as the CMC. The data can also be plotted directly against the concentration—LINEAR PLOT (18)—in which case the curvature of the descending portion is much more marked and the transition less sharp. A MINIMUM (15) in the curve is now known to be due to the presence of a third component (contamination or products of hydrolysis) which is more surface active but removed from the surface by solubilization in the micelles above the CMC. It is sometimes reported as the CMC of the system. We have also encountered the UNSPEC (64) where no details are given. Interfacial tension methods are considered later among methods involving an additive.

A related method is based on the FOAMING POWER (2) of the solution. It is not clear at present how the changes in this property are related to the association of monomers into micelles.

2. Electric conductivity—COND or CONDCTNCE (953)—is based on the measurement of the A-C electric resistances of the solutions. These can then be interpreted in terms of the specific

conductivity—SPECFC (386)—and plotted—GRAPH (343)—against concentration to give two almost straight lines whose intersection is the CMC or the data corresponding to each straight line can be summarized by equations—EQUATNS (43)—and the CMC obtained analytically. The data can also be converted to equivalent conductivity—EQUIV (352)—and the CMC obtained graphically—GRAPH (319)—usually plotting against the square root of concentration. Occasionally linear or cube root plots have been encountered. In much early work it was the first detected deviation—1ST DEVIATION (18)—that was reported as the CMC. As the CMC thus assigned depended clearly on the sensitivity of the method, this approach seems to have been abandoned. A few surfactants having low CMC's show a maximum of equivalent conductance in the CMC region. The origin of this maximum is not yet clear [34a] and in some cases the beginning of the rise—MAX BEGINING (10)—in others the MAXIMUM (5)—itself is reported as the CMC.

Some authors report averages—AVER (110)—of two of the above methods, namely specific and equivalent—SP EQUIV (104)—conductivities or of the beginning of the rise to the maximum and of specific conductance—COND BEGINING MAXIM (6). Some report results based on conductance without further details—UNSPEC (105).

The variation of electric conductance with frequency at high frequencies, the so-called WIEN EFFECT (1), is different for micelles and monomers and has been used to determine the CMC.

3. There is a variety of methods to investigate optical and spectroscopic properties of a solution, and they may be classified as follows:

(a) Measurements of scattered light—LITE SCATR or LIGHT SCATTER (317) depends on the measurement of the intensity of light at an angle, generally 90°, to the incident beam.

A plot of this intensity or of the turbidity of the solution (which is proportional to it) shows a low slope for dilute solutions and a steeper one above the CMC. The intersection of the two parts on a TURBIDITY PLT (291) gives the CMC. Debye has pointed out that the concentration above the CMC divided by the turbidity (or excess turbidity above that at the CMC) is close to a straight line. Conversely the CMC may be obtained by selecting the value which gives the best straight line on such a DEBYE PLT (25). In light scattering the exact

procedure was not indicated only once—UNSPEC (1).

(b) The CMC can be obtained from the change of slope of the REFRACTIVE INDEX (134) when plotted against concentration.

(c) The absorption spectrum of some surfactants is different when they are in micellar and in free form. Hence, plotting the absorbancy at a suitable wavelength can give a change of slope corresponding to the CMC. This MICELLAR SPECTRAL CHANGE (30) method should be distinguished sharply from the multitude of other spectral change methods in that it does not require any additive.

(d) Others. A CMC has been obtained by the change in the X-RAY DIFFRACTION (1) pattern but this method has a very low sensitivity and, therefore, precision. Another method using a spectroscopic technique which has been introduced after the closing of this survey involves shifts of nmr peaks.

4. Calorimetric methods used to obtain CMC's are those of SPECIFIC HEAT (4) and HEAT OF DILUTION (24).

5. Two colligative properties have been used. FREEZING POINT (14) lowering which gives the CMC at a single temperature, generally close to zero, determined by the nature of the solute and VAPOR PRESSURE LOWERING (38) generally measured with a so-called vapor pressure osmometer based on the temperature comparison of two droplets, one of solution, the other of solvent.

6. The abrupt increase of solubility with increasing temperature which occurs once the solubility reaches the CMC region is the basis of the KRAFT POINT SOLUBILITY (21) method. This change is sharpest when the logarithm of the solubility is plotted against the inverse absolute temperature. Often other plots or even single point experiments are used which have little or no value.

7. Several of what may be called transport properties have been used. They include:

(a) Measurements of the DIFFUSION COEFFICIENT (2) of the surfactant which gives, of course, an average of the very different mobilities of micelles and monomers and leads to a change of slope in a D versus C plot to give the CMC.

(b) The VISCOSITY (9) of the solution plotted as the specific viscosity $[(\eta - \eta_0)/\eta_0]$ or as the reduced viscosity (η_{sp}/c) shows a change of slope at the CMC. A related method depends on an observed VISCOSITY MINIMUM (14) in the CMC region. This minimum probably results from a combination

of surface tension, contact angle, and viscosity effects in the capillary instrument used, so that its relation to the micelle formation is not clear.

(c) Measurements of STREAMING CURRENT (6) have been also used for determining the CMC and should perhaps be classified among methods requiring an additive since these electrokinetic phenomena depend on the adsorption on the solid involved which is specific to the surface. They also depend, though only in a secondary way, on changes occurring in the bulk of the solution which involves the CMC.

(d) Changes in the concentration of the filtrate in ULTRAFILTRATION (9) and in the sedimentation coefficient in ULTRACENTRIFUGATION (1) also lead to CMC values.

8. Potentiometric measurements use several approaches:

(a) ELECTROMOTIVE FORCE (32) methods involve measurements of potential of either specific ion electrodes other than pH ones or of an insoluble mercury-surfactant salt electrode against a salt bridge-reference electrode. It may be noted that the presence of the salt bridge often causes local precipitation of the surfactant and that insoluble salts can be solubilized by micelles. These complications are often overlooked but should, perhaps, cause these methods to be considered with those involving additives.

(b) EMF ALONG CONC GRADIENT (1) uses two closely spaced identical electrodes moved through a solution having a known concentration gradient. Hence, it depends on a change of the slope of the emf-versus-concentration curve.

(c) PH AND HYDROLYSIS (9) method involve pH measurements interpreted either directly or after conversion to a degree of hydrolysis. They are grouped together since they often involve problems of carbon dioxide contamination as well as salt bridges.

9. Other bulk properties that have been used to determine CMC's are density (23) based generally on magnetic float methods plotted directly as DENSITY (17) or after conversion to PARTIAL VOLUME (6) and ultrasonic VELOCITY OF SOUND (10).

Methods Involving the Use of an Additive in the Bulk of the Solution

1. Spectral change-SPCTR CHNGE (1602)-methods.

This family of methods whose limitation (which we

consider quite severe) will be discussed below (p. 12) is by far the most fertile one as far as supplying CMC values. It is based on the fact that the spectra of many dyes added in very small amounts to a surfactant solution are very different in the region below and in that above the CMC. Pinacyanole-PNCN (1176)-is also by far the most popular among these dyes. The CMC may be determined, for example, by titration of a solution above the CMC by one below the CMC, both containing the same concentration of dye. Some definite shade is chosen as the end point corresponding to the CMC. Alternatively, solutions having concentrations bracketing the CMC are prepared containing the same concentration of the dye and their color examined visually, or their spectrum or their absorbancy at a specific wavelength measured. In any case, the concentration at which some sharp change occurs is taken as the CMC. In some cases the values are extrapolated to zero dye concentration. For one dye Rhodamine 6G-RHD6 (74) in addition to the spectral change, the change in fluorescence FLUOR CHNGE (19) was used and is based on the same principles.

We have noted whether the technique used was VISUAL (1277) photometric-FOTOMTR (305)-or UNSPEC (20)-as this is related to the precision expected.

Other dyes which have been used in this method are Fluorescein-FL (2), Erythrosin-ERTS (7), dichlorofluorescein-DCLF (9), Benzopurpurine 4B-BZP4 (11), Bromphenol Blue-BRPB (21), Skyblue FF-SKYB (43), Eosin-EOSN (51), Indophenol-INPX (129) and, included because it performs the same function although not a dye in the strict sense, Iodine-12 (52). There is also unspecified VISUAL SPECTR CHNGE (27).

2. The fact that many water-insoluble substances dissolve significantly in the presence of micelles, i.e., are solubilized, has been used in the determination of CMC's by solubilization-SOLUBLZTN (293)-methods. The solubility of dyes has always been determined photometrically-FOTOMTR (274)-unless it is UNSPEC (12), that of TOLUENE (4) has been determined volumetrically, and the limit of solubility of lauryl alcohol has been established turbidimetrically-TURBIDMTR LOH (3)-. The most popular dye is the so-called orange OT-OROT (158)-which is always 1-o-tolyl-azo-2-naphthol, CI Solvent Orange 2, m.p. 128-9°, and not the complicated pigment which was once available under that name which is CI Pigment Orange 13,

m.p. 332°. Other solubilizates used are paradimethylaminoazobenzene—PDMAB (59), Sudan 4—SDN4 (46), azobenzene—AZBA (11), Yellow OB—YLOB (9), 2-nitro-diphenylamine—2NPA (2) and dimethyl yellow—DMYL (1).

3. Methods based on liquid-liquid interface phenomena.

(a) Measurements of INTERFACIAL TENSION (52) between an aqueous solution of a surfactant and an immiscible liquid have been used in the determination of the CMC. Most values were obtained from semilogarithmic plots, LOGM (46) but we also found UNSPEC (6). These methods are classified among those requiring an additive because of the always finite solubility of the other liquid in the aqueous phase especially above the CMC. A frequently present source of error in this method is the solution of some of the surfactant in the nonaqueous phase which can radically change its real concentration.

(b) We are placing in the same category methods based on the suppression of the POLAROGRAPHIC MAXIMUM (45) since this suppression is related to an increase in surface (dilatational) viscosity of the mercury-solution interface which reduces the convection currents responsible for the maximum in the "diffusion" current. These surface viscosity changes are in turn related to the adsorption of the surfactant and thus depend on its activity. However, it is not clear at present how the final polarographic criterion is related to the CMC. These measurements require also the presence of a very high concentration of an inert electrolyte and that of an electrochemically active indicator ion. This makes the composition of the solutions rather unique and prevents comparison with other data. Although we are quite skeptical about the significance of data obtained by this method, we have reported them in view of lack of any definite evidence of their invalidity. A further disturbing fact is that sometimes two CMC's are reported for a given system. One of them is, therefore, certainly wrong. However, for the sake of completeness we had to record both.

4. Other methods in this class include a result obtained from changes in the FLOCCULATION RATE (1) of a suspension and those from changes in the (reaction) REACTN RATE OF A SOLUBILIZATE (2) as it becomes solubilized above the CMC.

6. Reasons for Methodical Differences Between CMC Determinations

As shown by the above review of methods used, the determination of a CMC involves a series of measurements of some property of solutions of surfactant, alone or with an indicator, as a function of concentration followed by the detection of some characteristic point which is called the CMC. Methodical differences may originate from the choice of the characteristic point, the kind of plot on which this point is chosen, the kind of data which are plotted, and the effect of the indicator, if any, upon these data. We use here the term "plot" in a general sense to include any serial representation and even titration, although in the great majority of cases it is a real graphical plot that is involved.

If the CMC were a sharply defined point, such as a melting point, above which some properties were qualitatively different from those below it, methodical differences would be nonexistent or greatly reduced. In fact, however, all properties of a solution in the CMC region vary in a continuous manner and so do all their derivatives. There is, nevertheless, a relatively narrow region of concentration in which these changes are most marked. This is illustrated by precise measurements on pure systems such as those of figure 4 (and is, of course, exaggerated on impure ones) but is perhaps best

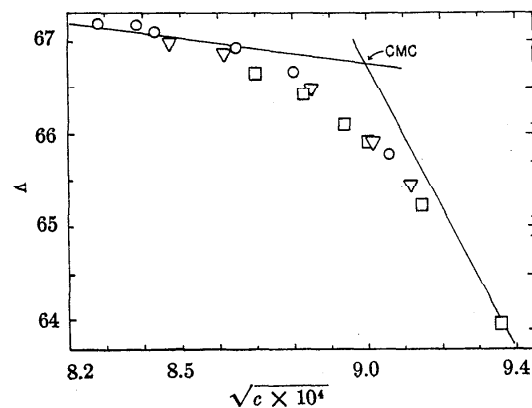


FIGURE 4. Detail of the CMC region for sodium dodecyl sulfate.

The straight lines are based on many points beyond the limits of the figure. The points were obtained by two investigators on two different preparations of the compound. From reference 58013, reprinted by permission of the Journal of Physical Chemistry.

grounded on broad theoretical considerations. One is that a micelle is by definition a reversible aggregate of a large but not infinite number of monomers and that the micelle-forming reaction must obey the laws of chemical equilibrium. As such, the

concentration dependence of the degree of micellization has to change gradually although it may change rapidly [32, 33, 35]. A truly abrupt, discontinuous, transition is excluded. Consequently, all properties of the solution must show similarly rapid but gradual changes. Another argument which is less self-evident but seems to be well supported is that there is not a unique number of monomers which can form a micelle but a range with relatively wide limits. Hence, micelles are polydisperse. This is in agreement with the fact that (the average) micellar size varies continuously with conditions such as temperature, concentration of surfactant, concentration of counterion or other additives, nature of counterion, chain length and structure, and also that micelles are good solvents both for other materials as shown by solubilization, and for each other as shown by the frequent continuous formation of mixed micelles. Reasonable assumptions about forces determining the size of the micelle also lead to the conclusion that they must be polydisperse [35a]. Hence, in the CMC region not one kind of micelle, but many kinds appear, each with a slightly different concentration dependence which further spreads and complicates the changes of bulk properties occurring in this region.

In light of these considerations, we shall now review in more detail the sources of methodical discrepancies in CMC determinations and their effect upon our critical evaluation.

1. *Choice of the characteristic point.* As already mentioned, in some early work, it was the first detectable deviation from monomeric properties that was taken as the CMC. This depended greatly on the sensitivity of the method and has generally been replaced by an extrapolation from below and from above to a point of intersection. If the two lines are straight and differ markedly in slope, this is a simple procedure. Unfortunately, such is seldom the case. Some of the procedures, therefore, involve a treatment of the data to obtain a straight line. Thus, equivalent conductivity of strong electrolytes is plotted against the square root of the concentration in accordance with the Onsager limiting slope.

It also seems true that those properties which give the best straight lines, because they are rather insensitive to interparticle interactions, also give small differences of slope for the same reason. Density and refractive index or specific conductance in the presence of high salt concentrations are good examples. Hence, they require precise meas-

urements to give useful results. This implies keeping constant all factors other than the concentration of surfactant, such as the temperature, and also the concentration of other components such as added salts. The latter often requires extreme precautions against evaporation. In the interpretation of such precise measurements, difference plots (i.e., experimental value minus a straight line value) are useful. A few methods, however, give good straight lines of very different slopes, e.g., conductance in the absence of high salt concentrations, solubilization of some dyes, or micellar spectral changes of some pyridinium compounds.

Closely related to the extrapolation method is that of the point of maximum rate of change of slope (i.e., zero value of third derivative) which is useful in theoretical calculations [16] but is so difficult to apply experimentally that it does not seem to have been used.

In the spectral change methods using indicator dyes there is generally a change of absorbancy at any given wavelength from one characteristic value below the CMC to another above the CMC. Some authors take the beginning, some the end, and most the midpoint of that change. The latter is by far the most objectively defined but, as we shall see later, is a function of concentration of the indicator. In visual methods there is much subjectivity and the result can depend markedly on local illumination because of the very complicated absorption spectrum of certain dyes, particularly the most frequently used one, pinacyanole.

Clearly, depending on which point is defined as the CMC, values covering a considerable range may be obtained. We have given weight only to those methods which defined a point in the middle part of the range, particularly those using an extrapolation procedure, and much of the following discussion will be restricted to those.

2. *The kind of plot chosen.* A point which is not often appreciated is that the same experimental data can give different values for the CMC by extrapolation procedures depending on how they are plotted. The best known example of this is the difference between CMC's obtained by plotting conductance versus concentration and the corresponding equivalent conductance versus the square root of concentration. Figure 5 shows an example of the same set of experimental data plotted in these two ways. Very reasonable linear extrapolations give a well-defined CMC in each case, but the two values

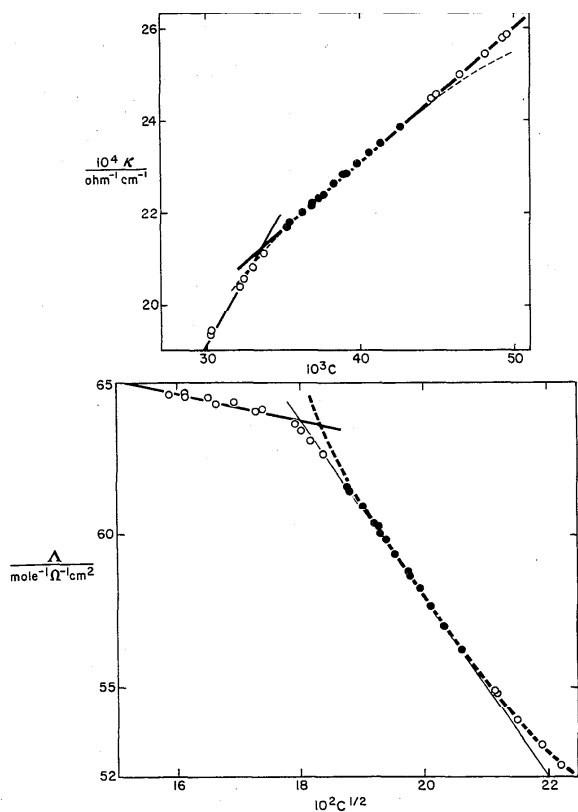


FIGURE 5. The effect of the way of plotting upon the value of the CMC obtained from the same data.

Above: conductivity versus concentration; below: equivalent conductivity versus square root of concentration. The dotted curves on each graph correspond to the straight line of the other graph. The filled points are common to both lines. Data for sodium decyl sulfate obtained by Dr. R. J. Otter. From the 14th Technical Report, Office of Naval Research, Contract Nonr-274(00) by K. J. Mysels, R. J. Otter and P. Kapauan, University of Southern California, October, 1960. (Cf. Ref. 61017).

differ by about 3 percent, which is much more than the uncertainty in each. The discrepancy is due in large part to the fact that, a straight line on one plot is a curve on the other so that different points are chosen as the basis for extrapolation and the intersection is shifted.

3. *The kind of data.* If micelles were monodisperse then, for CMC determinations, the molecular weight or charge dependence of a property would not matter as long as it was linear with some function of the concentration. However, if one accepts the premise that polydispersity is possible, it is clear that different physical properties will give differently weighted measures of micellar concentrations and, therefore, different extrapolated values of zero micelle concentration, i.e., different CMC's [18]. The most accessible experimental variable is the total concentration of surfactant conveniently ex-

pressed in equivalents. We will estimate the kind of average that is plotted against this variable in some popular methods without attempting to discuss this subject fully.

Solubilization. As a first approximation we may assume that the surfactant chains have a constant solvent power independent of their configuration, i.e., independent of the micellar size. The quantity measured—the concentration of solubilize—is then directly proportional to the equivalent concentration of micellized surfactant and independent of polydispersity. More formally, we call n_i the number of monomers per micelle of a given size, M_i the molar concentration of these micelles, and C_i their equivalent concentration. Each group of micelles then dissolves an amount of solubilize proportional to $M_i n_i$ and the measured total give us

$$\sum M_i n_i = \sum C_i = C_m$$

where C_m is the total equivalent concentration of micelles. Thus, the result is unweighted.

Colligative measurements. These give the sum of molar concentrations of micelles (for the simple nonionic case). Hence, we get

$$\sum M_i = \sum C_i / n_i$$

the inverse-size weighted equivalent concentration of micelles.

Turbidity. The total turbidity is the sum of the turbidities of the individual micelles and these in turn are proportional to the square of their mass (again neglecting charge effects and other interactions). Hence, we measure

$$\sum \tau_i = \sum M_i n_i^2 = \sum C_i n_i$$

or the size weighted equivalent concentration of micelles.

Thus, it is clear that these different methods must yield different results. Yet, when the polydispersity is small, the micelles large, and the transition region narrow, the differences may be small, often smaller than experimental uncertainties. Thus, depending on the precision involved and the particular system under consideration, the term CMC may have a definite meaning or may have to be tempered by a specification of the experimental method used and also of the way in which the results are interpreted. Unfortunately, there is little definitive information about the final effect that these factors have on the CMC values determined by various methods.

In the final evaluation of the CMC values, we had to face the question whether two numbers obtained under allegedly identical conditions and by apparently reliable measurements did agree sufficiently to confirm each other. In making the decision, we tried to take into account the differences expected between methods in addition to differences due to the unavoidable experimental uncertainty on which we placed an arbitrary limit of 1.5 percent. Hence, two CMC values differing by 4 percent may be taken as confirming each other, if the methods used would be expected to differ by 3 percent (in the proper direction), as is indeed the case for conductance and equivalent conductivity measurements.

4. *The effect of the concentration range used.* Extrapolation generally uses straight lines. Few physical properties vary, however, exactly linearly. Generally, some curvature is present in reality. Hence, the line drawn tends to be a chord and its direction and position are a function of the portion of the curve that is being approximated. This remains true whether a line is drawn by inspection or after a least square calculation. In terms of CMC determinations, it means that the value obtained depends generally on the range of concentrations above and below the CMC over which the extrapolation is taken and, therefore, the number and spacing of points. There is no general agreement as to what these ranges should be and herein lies another source of discrepancies. Figure 6 shows the effect of the range of data used upon the CMC.

In dilute solutions there are some theoretical guides to the expected curvature which suggest the kind of graph which is likely to make the experimental points fall close to a straight line. The square root for conductivity, the logarithm for surface tension are good concentration scales for monomers, and micellar concentration divided by turbidity is a good one for light scattering. In more concentrated solutions the systems depart more and more from ideality and all plots become nonlinear. Extrapolation then becomes more and more a question of judgment and of the range and spacing of available data, and the CMC value becomes highly subjective. Since compounds with shorter chain lengths tend to have higher CMC's, this is an important factor in reducing the accuracy of CMC determinations as the chain length decreases below 10 carbon atoms.

The CMC region is itself a region of curvature of any measured property. This means that experi-

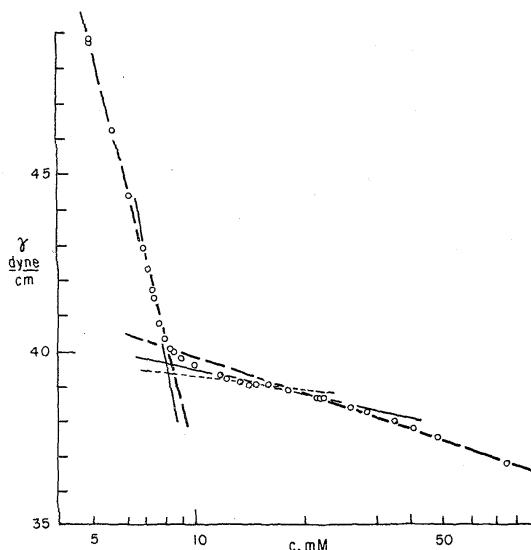


FIGURE 6. *The effect of the range of values used upon the CMC.* Surface tension data for highly purified sodium dodecyl sulfate from reference 66007. The various straight lines represent extrapolation based on points within a certain range of concentrations. If points outside this range were not available, each of these extrapolations could be considered as quite reasonable.

mental points very close to the CMC cannot be used for its determination because they deviate from both lines used in the extrapolation. The sharper the curvature the smaller the unusable concentration span and the simpler the extrapolation. Theoretical calculations show clearly [33, 35] and it is easily seen physically, that the larger the micelle the more cooperative is micelle formation and the sharper the curvature. Polydispersity of micelles can only smear out the transition region. Hence, pure systems show much better defined and more easily measured CMC's because of reduced polydispersity. For space-filling reasons, long-chain monomers can form larger spherical micelles, and do form larger micelles in general according to available experimental evidence [8]. Short-chain compounds, therefore, present an additional difficulty because of the spread of their CMC region not only in absolute terms but also in relative ones.

The combined effects of curvature at higher concentrations and of the relative width of the transition region account for the fact that we have not been able to include any C-8 compounds among those for which confirmed or recommended values are available. This is despite the fact that these compounds are intrinsically easier to prepare in a state of high purity, that the measurement of the physical properties of their solutions can be made

more precisely and that any impurities in the solvent are less disturbing just because the CMC's are higher.

Long-chain compounds present different but no less serious difficulties because their CMC's are so low. Here the actual measurement of the physical property becomes difficult because it often differs little from that of the solvent, the control of concentration may become a problem because surfactants tend to adsorb at interfaces, and trace impurities in the solvent play a larger role. Furthermore, the compounds themselves are intrinsically less easily purified because certain operations, such as distillation of intermediates, become more difficult, and also because there is an increased number of isomers and because properties of homologues and isomers become more similar. In our collection only one value for a C-16 compound became recommended and an inordinate fraction is marked "D" for disputed, reflecting the difficulties involved.

Thus, the bulk of reliable CMC data deals with compounds in the C-10 to C-14 range. It is clear that better experimental methods are needed to extend the upper limit and better interpretation to overcome the lower one.

5. *The effect of indicators.* A very large fraction of all reported CMC values was obtained by methods involving the deliberate addition of an indicator, generally a dye which is solubilized and presents an easily measurable difference in the solubilized and not-solubilized state. This requires a discussion of the role of these indicators and of the reasons which led us to accept certain of these methods as valid and to reject the great majority as likely to be biased by significant methodical errors.

Solubilization is the marked increase of solubility associated with the formation of micelles. It is of special interest for substances which are sparingly soluble in water but is not limited to these. To a first approximation the excess solubility is directly proportional to the concentration of micelles [36] showing that these act as a solvent having a limited solvent power for the solubilize. We can consider the saturated solution as an equilibrium system in which both the true solvent (water) and the micelles are saturated with the solubilize. In undersaturated systems there are good reasons to believe [36, 37] that a distribution equilibrium between water and micelles exists.

It is a well-known rule of physical chemistry that the activity of the solvent is lower in a solution than

in the pure state. Hence, in the macroscopic world, the liquid phase forms at a lower vapor pressure in the presence of a solute than in its absence. In fact, at equilibrium the first drop always forms at the vapor pressure of the saturated solution. In the microscopic world of the micelle considered as a solvent, the analogy is clear: the activity of the surfactant in the micelle is lower in the presence of a solubilize. Hence, micelles form at a lower concentration of monomers in the presence of the solubilize. In fact, the first micelles exist at the equilibrium monomer concentration corresponding to a micelle saturated with the solubilize under the conditions of the experiment. Two conclusions can, therefore, be drawn: the presence of a solubilized indicator always lowers the CMC, and this lowering reaches a maximum if the micelle is saturated with the indicator during the determination.

If the solubilize is assumed to form an ideal solution in the micelle and related simplifying assumptions are made, it has been shown by Shinoda [38] that the CMC is changed by a factor $(1 - 1.36x)$ for an ionic surfactant where x is the mole fraction of additive in the micelle. For the nonionic case, the factor becomes simply $(1 - x)$. The value of x depends, of course, on the concentration of micelles at the point taken as the CMC, the total available amount of indicator, and its solubility in water and in the micelle.

An additional and often neglected complication occurs when the indicator is a high molecular weight organic ion such as most of the dyes used in the spectral change methods, in particular pinacyanole. If the charge of the dye is the opposite of that of the surfactant, an insoluble salt may form. In fact, such a salt generally does form [39-41] as is evident from the color change produced by sub-CMC amounts of surfactant. This precipitate often remains finely dispersed by an excess of the surfactant and escapes detection. It is this precipitate which then becomes solubilized by micelles when the concentration of surfactant is further increased, causing a second color change that is generally reported as the CMC. The indicators are mostly used in small concentrations (10^{-4} - $10^{-5}M$) so that the amount of surfactant consumed by precipitation is often negligible compared to the CMC but can become significant for low CMC's.

The presence of this water-insoluble precipitate has, however, a more profound effect on the determination of the CMC: it maintains a saturated solution until the last of the precipitate is dissolved. This also

corresponds to the end of at least one absorbancy change, the disappearance of the color of the precipitate (the γ band for pinacyanole) [39]. Hence, it has the effect of producing the maximum lowering of the CMC through the actual determination range in many of these methods. Lowering the dye concentration reduces the fraction of surfactant used up in precipitating the dye but does not affect significantly the degree of saturation of the micelles at the color change.

Saturation by the indicator in case of *oppositely* charged dyes is particularly objectionable because of their frequently high solubility in the micelles. Thus, the solubility of pinacyanole was estimated at 15 to 20 mole percent, in the first mixed micelles that formed [39].

There are other methods of CMC determinations in which the situation is more favorable, either because saturation of the micelle is avoided or because the mole fraction at saturation is much lower. In the former category falls the use of *similarly* charged dyes. The formation of a water-insoluble, micelle-soluble salt is then avoided: the dye remains in aqueous undersaturated solution and its mole fraction in the micelle is only a corresponding fraction of saturation. Unfortunately, no methodical studies on this approach are known to us. In the same class are dye or iodine methods used with nonionic surfactants.

Some of the solubilization methods use nonionic, water-insoluble dyes whose solubility in the micelles is known to be low. "Orange OT" is the most popular of these, and here it is known [42-44] that the mole fraction at saturation is about 0.01, thus producing a generally negligible error. Some of the other solubilized indicators such as lauryl alcohol or toluene are likely to lead to mole fractions, and hence CMC changes, of the order of 10 percent or more.

The above discussion makes clear our objection to accepting values, obtained in the presence of easily solubilized indicators under conditions favoring saturation, as valid CMC measurements for the surfactant itself. They are classified as G as far as "Method Quality" is concerned, indicating that a substantial methodical error is likely to be present. On the other hand, such data could be, in principle, excellent values for the mixed system (surfactant + indicator + water). In the great majority of the cases this is not so because the conditions are not sufficiently specified and the proportion of additive often unstated. In some cases, however, we

were able to treat the data in just this way and some of the indicators may be found among the additives.

6. *The effect of impurities.* What has been said above about the effect of indicators applies to the effect of any impurities with the important provision that indicators are added consciously and generally specified in an article, whereas impurities are included inadvertently and their nature is uncertain. We have always scanned an article for clues to the presence and nature of impurities. Such clues can be found in details of the method of preparation, of analyses, and of other physical constants or properties reported. The results are included in our "quality rating" of the compound. In general we have been more skeptical of the older measurements performed before concern about the effect of impurities became widespread and modern analytical techniques were developed. We have given great weight to foam purification at a concentration below the CMC and to chromatographic methods.

The effect of impurities upon the CMC value depends both on the nature of the impurities and on the method used in the determination. We can learn something about the effects of different classes of impurities from their effects upon the CMC when they are added deliberately as "additives." Some have little effect unless present in concentrations too high ever to be reached by impurities. Hydrophilic organic compounds such as sugar or ethanol are in this class as are "inert" salts. On the other hand, oleophilic impurities and salts containing ions forming water-insoluble easily solubilized precipitates can have large effects as we have seen in connection with indicators because they tend to saturate the few micelles present at the CMC and lower the activity of surfactant in them. Higher homologues or incompletely reacted organic intermediates such as alcohols are among objectionable impurities likely to be encountered.

The case of true soaps, i.e., salts of higher carboxylic acids, merits a special mention. Here the acid itself, highly water-insoluble and easily solubilized, is the most important impurity. Some of it is normally formed by hydrolysis and must be considered as a normal constituent of the (water-surfactant) system. Additional substantial amounts are readily formed unless the presence of atmospheric carbon dioxide is carefully excluded. If precautions to this effect were not explicitly mentioned, we assumed that the system was impure and gave it a "D" rating. The effect of CO_2 can be largely neutralized by operating in the presence of a slight

excess of base. The CMC is not likely to differ substantially from that of the pure system but we have always reported such experiments among systems with additives, specifying the nature and concentration of the base used whenever possible.

The effect of an impurity upon different methods of determining the CMC is largely unknown. Some of our unpublished experiments suggest that traces have a larger effect on values obtained by plotting the equivalent conductivity than those obtained by plotting the specific conductance for the same systems. Dye indicator methods seem to give particularly low results in the presence of higher homologues or intermediates because both tend to concentrate in the first mixed micelles formed. It is likely that pinacyanole may change color by dissolving in droplets of emulsified higher alcohol far below the CMC [45].

The best studied effect is that of a surface active impurity upon the surface tension method. It is now well understood that such impurities may lower the surface tension significantly below the CMC and then become solubilized sufficiently in micelles to be more or less completely removed from the surface [6, 46-48]. This leads then to a higher surface tension after an intermediate minimum. As already mentioned, such minima have been often used as CMC values but we now take them as *prima facie* evidence of the presence of easily solubilized—and therefore significant—impurities or hydrolysis products.

An impurity leading to a minimum must have a surface activity at least comparable with that of the surfactant. If the surfactant is very surface active, the same impurity may remain unnoticed. This is shown by experiments of Harrold [49] who found that addition of salt (which increases the surface activity of the ionic surfactant much more than that of the alcohol) leads to a disappearance of the minimum along with a lowering of surface tension and of the CMC. Hence, the more surface active the surfactant, the less significant is the absence of a minimum as a criterion of purity.

When a minimum is present it becomes difficult if not impossible to obtain an accurate value for the CMC from surface tension measurements. However, even when a minimum is absent it seems that the surface tension method is particularly strongly affected by traces of impurities. This is a point which became apparent gradually in the course of our evaluations. Initially, we rated careful surface tension measurements showing no minima as BB. Later,

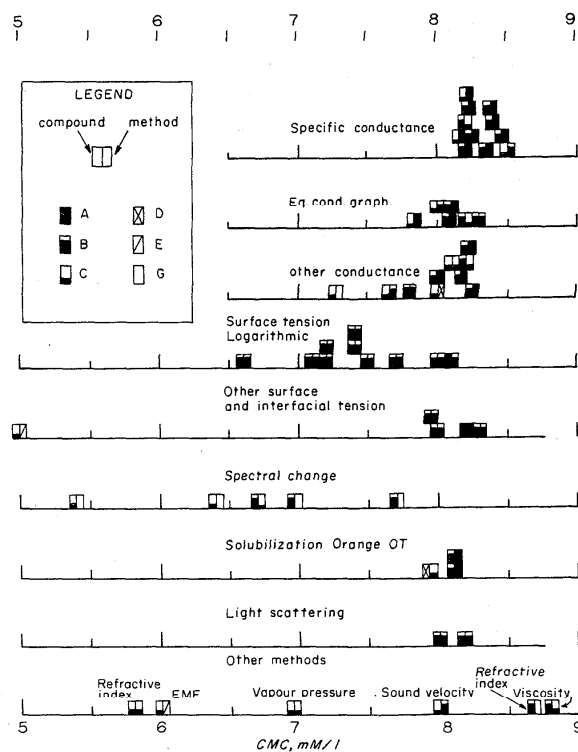


FIGURE 7. All the critical micelle concentrations for sodium dodecyl sulfate at temperatures between 20 and 30°C, carrying a quality rating of C-G or better, obtained by various experimental methods.

Each square represents a determination and as shown in detail in the legend, the amount of black increases with the quality of the determination. It may be seen that CMC's determined by surface tension from a logarithmic plot scatter much more than other high-quality data obtained by a single method.

we found that this was often an overestimate of the accuracy of the method, although the details of the source of error remain obscure. Figure 7 illustrates our case. It shows all the measurements rated CC or better, and CG for sodium dodecyl sulfate at $25 \pm 5^\circ$. Values obtained by different methods are shown on separate lines and the shading of the points indicates their individual quality rating. It may be seen that for conductance methods and for the miscellaneous ones the better values cluster together and the methodical difference mentioned earlier between equivalent and specific conductance plots is visible. The spectral change methods give, as would be expected, widely scattered results. However, the surface tension values rated BB, although not nearly as bad as the spectral change ones, cover a surprisingly wide range and show no clustering near the CMC expected for the pure compound. Part of this may be due to differences in extrapolation, but measurements on an especially

carefully purified sample (foamed in situ) yielded much more acceptable values using different ranges of points. This suggests that residual impurities are to blame. It also suggests that for surfactants having greater surface activity the effect may well be reduced, but there are no data to test this hypothesis.

As a result of these considerations we did not depend on surface tension values alone for any "confirmed" result although we have used them occasionally to confirm results obtained by another method. We have also used them more liberally for the nonionic compounds both because these are more surface active and because alternatives are fewer.

For the sake of consistency, we have maintained the BB rating for this type of data throughout in the individual quality evaluations.

7. Scope of this Collection

Micelle-forming systems cover a wide variety of molecular species which have in common one feature often described as amphipathy, a built-in asymmetry in the molecule which is composed of a nonpolar, hydrophobic portion, and a polar, hydrophilic part. The systems we have covered include monomers containing straight or branched aliphatic chains, sometimes partly or completely halogenated, and sometimes partly aromatic, with a wide variety of head groups, nonionic, zwitterionic, or ionic, including a variety of counterions in the last case. The solvents are aqueous, partially or completely; in a few systems the medium is heavy water. The variables which are explicitly cataloged, are temperature, pressure (except when it is atmospheric), the nature and the concentration of additives to the medium, the experimental method used, and the type and source of the CMC data themselves.

Certain types of systems were excluded intentionally. The reasons for such exclusions are given.

The association of monomers to produce oligomers and multimers in solution is a frequently observed phenomenon. The existence of a critical micelle concentration, however, requires fairly large multimers (containing roughly 20 or more monomers) in preference to small oligomers. Thus, for example, if monomers associate to produce dimers, trimers, and higher multimers with approximately equal stepwise association constants (the association constant describing the equilibrium between the N th mer, the $(N+1)$ th mer and the monomer),

the degree of aggregation is a mild function of the total concentration; the aggregates are very polydisperse, and the system does not show any pronounced critical concentration.

The difference between systems which exhibit fairly sharp critical concentrations and those which do not is obviously a matter of degree. It seems, however, that the requirement of relatively greater stability of large multimers as compared to small oligomers is met mainly by monomeric systems which contain some flexible aliphatic chains. Those monomers which contain fused aromatic ring systems, such as dyes and other flat organic molecules, or fused alicyclic systems such as bile-salts, are expected to have, and seem to have in fact, rather diffuse and extended concentration ranges over which the degree of association increases from low to high values. For many such systems, CMC values have been reported in the literature [50]. Because of the relatively greater uncertainty of defining and determining the CMC values in such systems, particularly when the average degree of association is small, we have not extended our compilation to such systems. We have, however, recorded CMC values for many systems where the monomer is partly aromatic and partly aliphatic.

The phenomenon of micelle formation in aqueous systems is primarily a result of hydrophobic interactions. Hydrophobic interactions are a net result of a number of factors involving structural rearrangements of water molecules and solute-solvent, solvent-solvent, and solute-solute van der Waal's interactions. It is, therefore, not unlikely that in solvents other than water, similar interactions, perhaps on a reduced scale, can occur to produce other kinds of "solvophobic" bonding. In our compilation, we have many examples of mixed aqueous-nonaqueous systems including such media as 96 percent sulfuric acid. It is expected that future research will provide examples of micellization in many other completely nonaqueous systems where the micelles will have essentially the same kind of structure as in aqueous media, namely a hydrocarbonoid core and a polar interface.

When the medium is nonpolar, however, e.g., benzene or other hydrocarbon-like solvents, it is relatively improbable that the hydrophobic moiety of the monomers will have any great tendency to aggregate. For such systems, any aggregation that occurs is more likely to be due to the association of the hydrophilic groups of the monomers, which are now "solvophobic," to produce micelles of the

opposite kind of structure, i.e., "invert micelles," having a core composed of the hydrophilic groups of the monomers with the hydrocarbon groups remaining outside. Although such associations have been studied, and CMC values have been quoted [51-54], considerable uncertainty remains about their significance. We have, therefore, excluded such systems from our compilation.

Well above the CMC, in aqueous media, there occur extensive interactions between micelles, which are often difficult to unravel, particularly if the micelles are ionic. In such concentrated solutions, many physical properties of solutions exhibit breaks or kinks somewhat similar to the ones that occur at the CMC where micelles first form. The concentrations where such breaks or kinks occur are often described as "the second CMC" [55, 56]. The second CMC is not well understood, but it clearly involves changes in inter-micellar interactions as also monomer-micelle interactions. These "higher CMC" values have also been excluded from our compilation.

While the above restrictions imposed on our compilation are voluntary, there are some involuntary omissions and probable errors which must be mentioned. Of foremost concern, of course, is that many publications must have been missed altogether. A balance has had to be struck between completeness of coverage (up to December 1966) and inordinate delays in producing this report. It is hoped that not many high quality data on well-characterized systems have been omitted. It is probably unwise to hazard a guess as to what percentage of available CMC values in the literature has been missed, but we hope that it is below 10 percent. It is possible, also, that some CMC values in the publications we have examined have been unintentionally overlooked. We hope that readers of this report who note either of such omissions will draw them to our attention.

8. Methods and Techniques in the Collection of Data

This section deals with some of the problems we encountered in the retrieval of the literature pertaining to CMC measurements and in obtaining numerical values of the CMC.

Because of the wide-spread importance of and interest in surfactants in solution, CMC values appear in a wide variety of journals. As the values themselves are often of auxiliary and secondary in-

terest to the main purposes of the investigation, neither the expression "critical micelle concentration" nor the word "micelle" may appear in the title of the articles. For the standard methods of literature search using Chemical Abstracts and other such publications, we, therefore, had to use a variety of key words for searching purposes. Use was made whenever possible of published books and review articles for the entries they provide into the literature. It was found necessary, however, to make extensive use of personal appeals to various investigators in the field of surfactant solutions to provide references to published work.

To obtain numerical values of the CMC, several procedures had to be used, as indicated by the source symbols. All numerical values quoted in the publications were given the source symbol T. The majority of these values were found in tables, but a substantial number were found dispersed in the written part of the text of the papers. It was necessary, therefore, to scrutinize the whole paper carefully. Of about 4700 numerical values reported in this compilation, 3207, or 68 percent, were obtained from this "direct" source. Numerical data were thus not available in the published literature for about 1500 CMC values which had to be obtained from various "indirect" sources described below.

In many publications, CMC values themselves are presented in graphical form, or some measured physical property of surfactant solutions is plotted as some function of the concentration, so that the CMC can be obtained from the "breaks" in the curves. A large number of numerical values of this type, i.e., values which are not given in the papers, were obtained by indirect means. A total of 598 values, given the source symbol L, involve, in addition to the published data, a private communication from an author. 515 values were "read" from published graphs and are given the source symbol G. 122 values used combined sources, GL. 90 CMC values were obtained from the kinks of published graphs of some physical property vs. concentration and are given the source symbol K.

In many publications, numerical values of some physical property measured, e.g., conductance, are tabulated as a function of concentration. When such measurements seemed to be of high quality, we obtained CMC values by making plots ourselves of the physical property measured. These CMC values, 96 in all, were given the source symbol P.

A small number of values, 21, were obtained by solving published equations relating numerical

values of some physical property, particularly conductance, with concentration, below and above the CMC. These have the source symbol E.

43 CMC values have combined source symbols, e.g., TL, KL, indicating dual sources of the values. These include 13 containing the symbol A, which denotes values which have been corrected for obvious misprints.

A substantial number of entries in the compilation do not report numerical CMC values because the entries either give a cross-reference to mixed surfactant systems, involve references to published graphical data for which retrieval was uncertain, or relate to numerical values obtained using criteria which we consider questionable.

The private correspondence from several investigators contained numerical data and references to unpublished work. We have not used these data in our present compilation.

A partial justification of the use of the various "indirect" sources referred to above is that their contributions to the categories of all selected data are high. Out of 620 data included in the categories 1, 2, 3, and D, only 270 were obtained from tabulated sources, T. Thus, 56 percent of all selected data are from "indirect" sources. Similarly, of the 106 confirmed (1) and recommended (2) CMC values, 67 are from "indirect" sources, not readily available from the literature.

9. References

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STRUCTURAL INDEXES OF COMPOUNDS WITH KEYS TO COMPOUND NUMBERS

PART 1. *GROUPED BY CHARGE* (Arranged by number of carbon atoms in longest hydrophobic tail and by heads)

- A. Anionics
- B. Cationics
- C. Nonionics

PART 2. *GROUPED BY CHARGE AND HEAD GROUPS* (Arranged by number of carbon atoms in longest hydrophobic tail and by heads)

- A. Anionics
- B. Cationics
- C. Nonionics

PART 3. *GROUPED BY STRUCTURE OF HYDROPHOBIC PART* (Arranged by number of carbon atoms in longest hydrophobic tail)

- A. Alkanes by Branching and Number of Carbon Atoms
- B. Alkyl Aryl
- C. Unsaturated and Substituted
- D. Heterocyclic

PART 4. *POLYOXYETHYLENES GROUPED BY DISTRIBUTION OF HEADS* (Arranged by number of carbon atoms in longest hydrophobic tail and by heads)

- A. Homogeneous Head Groups
- B. Reduced Polydispersity of Head Groups
- C. Natural Distribution of Head Groups

PART 5. *IONICS GROUPED BY COUNTERION* (Arranged by number of carbon atoms in longest hydrophobic tail and by heads)

- A. Anionics
- B. Cationics

PART 6. *COMMERCIAL NAMES AND ILL DEFINED STRUCTURES* (Arranged alphabetically)

Structural Indexes of Compounds with Keys to Compound Numbers

PART 1. *Grouped by charge and arranged by number of carbon atoms in longest hydrophobic tail and by heads.*

1A. ANIONICS BY NUMBER OF CARBON ATOMS

C-1	428 PERFLUORO ACETIC ACID	605 SODIUM AMYL ALPHAPHOSPHONO PELARGONATE	260 SODIUM DI-N-OCTYL SULFOSUCCINATE
C-2	429 PERFLUORO PROPIONIC ACID	262 SODIUM DI-2-ETHYL-HEXYL SULFOSUCCINATE	286 AMMONIUM DI-2-ETHYL-HEXYL SULFOSUCCINATE
C-3	43 BUTYRIC ACID	2 SODIUM OCTYL 1 SULFATE	66 SODIUM OCTYL 2 SULFATE
	430 PERFLUORO BUTYRIC ACID	347 OCTYL TRIMETHYLAMMONIUM OCTYL SULFATE	643 DODECYL TRIMETHYLAMMONIUM OCTANE SULFATE
	452 3-4-DICHLOROPERFLUORO BUTYRIC/KEL-F/ACID	181 SODIUM OCTYL 1-SULFONATE	340 MAGNESIUM OCTANE SULFONATE
	699 SODIUM BUTYRATE	287 OCTYL TRIMETHYLAMMONIUM OCTANE SULFONATE	503 SODIUM OCTYL BENZENE SULFONATE
	272 TRI-ISOPROPYL BENZENE SULFONIC ACID	49 SODIUM P OCTYL BENZENE SULFONATE	172 SODIUM 2-N-OCTYL BENZENE SULFONATE
	271 SODIUM TRI-ISO-PROPYL BENZENE SULFONATE	510 SODIUM 2-ETHYL-HEXYL BENZENE SULFONATE	676 SODIUM 1,1,3,3-TETRAMETHYL BUTYL BENZENE SULFONATE
C-4	484 SODIUM PENTANOATE/VALERATE/ SODIUM DI-N-BUTYL SULFOSUCCINATE	677 SODIUM DI-/1,1,3,3-TETRAMETHYL BUTYL/BENZENESULFONATE	
	267 SODIUM DI-N-BUTYL SULFOSUCCINATE		
	261 SODIUM DI-ISOBUTYL SULFOSUCCINATE	C-9	530 DECANOIC ACID
	681 SODIUM DIBUTYL BENZENE SULFONATE		455 PERFLUORO DECANOIC ACID
	445 SODIUM PARA-BIS-/N-BUTYL/ BENZENE SULFONATE		299 SODIUM DECANOATE
	682 SODIUM DIBUTYL NAPHTHALENE SULFONATE /NEKAL/		90 POTASSIUM DECANOATE
C-5	700 HEXANOIC ACID		702 POTASSIUM PERFLUORODECANOATE
	416 PERFLUORO HEXANOIC ACID		668 DIPOTASSIUM OCTYL MALONATE
	453 3-5-6-TRICHLOROPERFLUORO HEXANOIC/KEL-F/ACID		29 SODIUM NONYL ALPHA SULFOPELARGONATE
	188 POTASSIUM HEXANOATE		612 ALPHAPHOSPHONO DECANOIC ACID
	701 POTASSIUM PERFLUROHEXANOATE		616 MONOSODIUM ALPHAPHOSPHONO DECANOATE
	485 SODIUM HEXANOATE/CAPROATE/		606 SODIUM AMYL ALPHAPHOSPHONO CAPRATE
	343 SODIUM PENTANE SULFONATE		136 SODIUM ALPHA DIMETHYL AMINO CAPRATE
	258 SODIUM DI-N-AMYL SULFOSUCCINATE		295 SODIUM NONYL 1-SULFATE
C-6	296 POTASSIUM HEPTANOATE		536 NONYL SULFONIC ACID
	374 DODECAFLUROHEPTANOIC ACID H/CF2/6COOH		504 SODIUM NONYL BENZENE SULFONATE
	486 SODIUM HEPTANOATE		493 SODIUM P-NONYL BENZENE SULFONATE
	355 AMMONIUM DODECAFLUROHEPTANOATE H/CF2/6COONH4		138 SODIUM NONYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN
	352 SODIUM DI-1-METHYLISOAMYL SULFOSUCCINATE	C-10	297 POTASSIUM UNDECANOATE
	259 SODIUM DI-N-HEXYL SULFOSUCCINATE		373 AMMONIUM EICOSAFLUROUNDECANOATE H/CF2/10 COO NH4
	344 SODIUM HEXANE SULFONATE		425 POTASSIUM 1-1-2-DECANE TRICARBOXYLATE
	339 MAGNESIUM HEXANE SULFONATE		30 SODIUM DECYL ALPHA SULFOPELARGONATE
	501 SODIUM HEXYL BENZENE SULFONATE		33 SODIUM /OXO/ DECYL ALPHA SULFOPELARGONATE
	446 SODIUM PARA-BIS-/N-HEXYL/ BENZENE SULFONATE		3 SODIUM DECYL 1 SULFATE
	704 POTASSIUM 4-HEXYL RESORCINOLATE		15 SODIUM DECYL 2 SULFATE
C-7	529 OCTANOIC ACID		642 OCTYL TRIMETHYLAMMONIUM DECANE SULFATE
	417 PERFLUORO OCTANOIC ACID		346 DECYL TRIMETHYLAMMONIUM DECYL SULFATE
	454 3-5-7-8-TETRACHLOROPERFLUORO OCTANOIC/KEL-F/ACID		182 SODIUM DECYL 1-SULFONATE
	476 SODIUM OCTANOATE		341 MAGNESIUM DECANE SULFONATE
	44 POTASSIUM OCTANOATE		353 OCTYL TRIMETHYLAMMONIUM DECANE SULFONATE
	456 POTASSIUM PERFLURO OCTANOATE		288 DECYL TRIMETHYLAMMONIUM DECANE SULFONATE
	284 HEXANOLAMINE-CH3CH/OH/CH2C/CH3/2NH2-OCTANOATE		505 SODIUM DECYL BENZENE SULFONATE
	303 DI-ISOPROPYLAMONIUM CAPRYLATE		50 SODIUM P DECYL BENZENE SULFONATE
	502 SODIUM HEPTYL BENZENE SULFONATE		173 SODIUM 2-N-DECYL BENZENE SULFONATE
C-8	375 HEXADECAPLUORONONANOIC ACID H/CF2/8COOH		140 SODIUM DECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN
	487 SODIUM NONANOATE		511 SODIUM 2-PROPYL-HEPTYL BENZENE SULFONATE
	350 POTASSIUM NONANOATE	C-11	531 DODECANOIC ACID
	372 AMMONIUM HEXADECAPLUORONONANOATE H/CF2/8 COO NH4		273 SODIUM DODECANOATE
	420 POTASSIUM 1-1-2-OCTANE TRICARBOXYLATE		91 POTASSIUM DODECANOATE
	6 SODIUM ALPHA SULFOPELARGONIC ACID		627 CESIUM DODECANOATE
	25 SODIUM ETHYL ALPHA SULFOPELARGONATE		277 BENZYL TRIMETHYL AMMONIUM DODECANOATE
	26 SODIUM AMYL ALPHA SULFOPELARGONATE		527 SODIUM UNDECANE-3-CARBOXYLATE
	27 SODIUM HEXYL ALPHA SULFOPELARGONATE		669 DIPOTASSIUM DECYL MALONATE
	28 SODIUM HEPTYL ALPHA SULFOPELARGONATE		602 ALPHA SULFO LAURIC ACID
	7 SODIUM OCTYL ALPHA SULFOPELARGONATE		235 SODIUM ALPHA SULFO LAURIC ACID
	31 SODIUM 2 OCTYL ALPHA SULFOPELARGONATE		603 GODIUM PROPYL ALFIA SULFO LAURATE
	32 SODIUM 2 ETHYLHEXYL ALPHA SULFOPELARGONATE		613 ALPHAPHOSPHONO DODECANOIC ACID
	35 SODIUM H/CF2CF2/3CH2 ALPHA SULFOPELARGONATE		617 MONOSODIUM ALPHAPHOSPHONO DODECANOATE
	611 ALPHAPHOSPHONO PELARGONIC ACID		620 DISODIUM ALPHAPHOSPHONO DODECANOATE
			607 SODIUM ISOPROPYL ALPHAPHOSPHONO LAURATE
			311 SODIUM UNDECYL 1-SULFATE
			72 SODIUM UNDECYL 3 SULFATE

PART 1. *Grouped by charge and arranged by number of carbon atoms in longest hydrophobic tail and by heads—Continued*

80	SODIUM UNDECYL 6 SULFATE	618	MONOSODIUM ALPHAPHOSPHONO TETRADECANOATE
462	SODIUM MONOLAURIN SULFATE	621	DISODIUM ALPHAPHOSPHONO TETRADECANOATE
639	SODIUM UNDECYL THIOSULFATE	624	TRISODIUM ALPHAPHOSPHONO TETRADECANOATE
537	UNDECYL SULFONIC ACID	608	SODIUM METHYL ALPHAPHOSPHONO MYRISTATE
418	SODIUM UNDECYL SULFONATE	68	SODIUM TRIDECYL 2 SULFATE
45	SODIUM P 1 METHYL DECYL BENZENE SULFONATE	83	SODIUM TRIDECYL 7 SULFATE
678	SODIUM 1,1-DIMETHYLNONYL BENZENE SULFONATE	242	TRIDECANE 1 SULFONIC ACID
679	SODIUM 3-BUTYL HEPTYL BENZENE SULFONATE	229	SODIUM TRIDECANE 1-SULFONATE
		46	SODIUM P 1 METHYL DODECYL BENZENE SULFONATE
		141	SODIUM TRIDECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN
C-12			
351	POTASSIUM TRIDECANOATE		
421	POTASSIUM 1-1-2-DODECANE TRICARBOXYLATE		
34	SODIUM DODECYL ALPHA SULFOPELARGONATE		
632	POTASSIUM N-DODECYL BETA-ALANINATE		
705	DODECYL SULFURIC ACID		
1	SODIUM DODECYL 1 SULFATE		
67	SODIUM DODECYL 2 SULFATE		
634	POTASSIUM DODECYL SULFATE		
111	LITHIUM DODECYL 1 SULFATE		
23	SILVER DODECYL 1 SULFATE		
568	MAGNESIUM DODECYL SULFATE		
24	CALCIUM DODECYL 1 SULFATE		
569	STRONTIUM DODECYL SULFATE		
572	COBALTOUS DODECYL SULFATE		
573	CUPRIC DODECYL SULFATE		
570	LEAD DODECYL SULFATE		
571	MANGANESE DODECYL SULFATE		
575	NICKEL DODECYL SULFATE		
374	ZINC DODECYL SULFATE		
386	AMMONIUM DODECYL SULFATE		
387	METHYLAMMONIUM DODECYL SULFATE		
388	ETHYLAMMONIUM DODECYL SULFATE		
389	BUTYLAMMONIUM DODECYL SULFATE		
112	TETRAMETHYL AMMONIUM DODECYL 1 SULFATE		
393	BUTYL TRIMETHYLAMMONIUM DODECYL SULFATE		
382	ETHYL TRIMETHYLAMMONIUM DODECYL SULFATE		
718	TETRAETHYLAMMONIUM DODECYL SULFATE		
719	TETRAETHYLAMMONIUM DODECYL SULFATE		
720	1-6-DITRIMETHYLAMMONIUM-HEXANE/DODECYL SULFATE/2		
409	TRIETHANOLAMMONIUM DODECYL SULFATE		
410	MORPHOLINIUM DODECYL SULFATE		
391	OCTYLAMMONIUM DODECYL SULFATE		
385	OCTYL TRIMETHYLAMMONIUM DODECYL SULFATE		
280	DECYL TRIMETHYL AMMONIUM DODECYL SULFATE		
281	DODECYL TRIMETHYLAMMONIUM DODECYL SULFATE		
562	SODIUM DODECENYL SULFATE		
636	SODIUM DODECYL THIOSULFATE		
541	SODIUM DODECYL MONO-OXYETHYLENE SULFATE		
542	SODIUM DODECYL DIOXYETHYLENE SULFATE		
113	SODIUM DODECYL TRI-OXYETHYLENE SULFATE		
543	SODIUM DODECYL TETRA-OXYETHYLENE SULFATE		
114	SODIUM DODECYL /OXYETHYLENE/17.5 SULFATE		
597	SODIUM DODECYL MONO-OXYPROPYL SULFATE		
200	DODECYL SULFONIC ACID		
179	SODIUM DODECANE 1-SULFONATE		
175	SODIUM DODECANE 2-SULFONATE		
40	POTASSIUM DODECYL 1 SULFONATE		
635	LITHIUM DODECYL SULFONATE		
342	MAGNESIUM DODECANE SULFONATE		
238	SODIUM DODECANE 1-HYDROXY 2-SULFONATE		
247	DODECANE 1-HYDROXY 2-SULFONIC ACID		
506	SODIUM DODECYL BENZENE SULFONATE		
51	SODIUM P DODECYL BENZENE SULFONATE		
171	SODIUM 2-N-DODECYL BENZENE SULFONATE		
301	SODIUM 3-N-DODECYL BENZENE SULFONATE		
302	SODIUM 4-N-DODECYL BENZENE SULFONATE		
514	SODIUM 6-N-DODECYL BENZENE SULFONATE		
512	SODIUM 2-BUTYL-OCTYL BENZENE SULFONATE		
680	SODIUM 2-PROPYL-4-METHYL-OCTYL BENZENE SULFONATE		
492	SODIUM TETRAPROPYLENE/1-3-5-7-TETRAMETHYL-OCTYL/BENZENE SULFONATE		
139	SODIUM DODECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN		
C-13			
532	TETRADECANOIC ACID		
298	SODIUM TETRADECANOATE		
92	POTASSIUM TETRADECANOATE		
670	DIPOTASSIUM DODECYL MALONATE		
189	ALPHA SULFOMYRISTIC ACID		
236	SODIUM ALPHA SULFO MYRISTIC ACID		
604	SODIUM METHYL ALPHA SULFO MYRISTATE		
233	DISODIUM ALPHA SULFO MYRISTATE		
614	ALPHAPHOSPHONO TETRADECANOIC ACID		
C-14			
426	POTASSIUM 1-1-2-TETRADECANE TRICARBOXYLATE		
4	SODIUM TETRADECYL 1 SULFATE		
16	SODIUM TETRADECYL 2 SULFATE		
73	SODIUM TETRADECYL 3 SULFATE		
17	SODIUM TETRADECYL 4 SULFATE		
77	SODIUM TETRADECYL 5 SULFATE		
525	SODIUM TETRADECYL 6-SULFATE		
84	SODIUM TETRADECYL 7 SULFATE		
526	SODIUM 2-DI-N-HEXYL ETHYL SULFATE		
637	LITHIUM TETRADECYL SULFATE		
576	CUPRIC TETRADECYL SULFATE		
544	SODIUM TETRADECYL MONO-OXYETHYLENE SULFATE		
545	SODIUM TETRADECYL DI-OXYETHYLENE SULFATE		
546	SODIUM TETRADECYL TRI-OXYETHYLENE SULFATE		
598	SODIUM TETRADECYL MONO-OXYPROPYL SULFATE		
599	SODIUM TETRADECYL DI-OXYPROPYL SULFATE		
243	TETRADECANE 1-SULFONIC ACID		
183	SODIUM TETRADECYL 1-SULFONATE		
176	SODIUM TETRADECANE 2-SULFONATE		
248	TETRADECANE 1-HYDROXY 2-SULFONIC ACID		
239	SODIUM TETRADECANE 1-HYDROXY 2-SULFONATE		
507	SODIUM TETRADECYL BENZENE SULFONATE		
174	SODIUM 2-N-TETRADECYL BENZENE SULFONATE		
513	SODIUM 2-AMYL-NONYL BENZENE SULFONATE		
C-15			
533	HEXADECANOIC ACID		
300	SODIUM HEXADECANOATE		
185	POTASSIUM HEXADECANOATE		
571	DIPOTASSIUM TETRADECYL MALONATE		
190	ALPHA SULFOPALMITIC ACID		
237	SODIUM ALPHA SULFO PALMITIC ACID		
234	DISODIUM ALPHA SULFO PALMITATE		
36	SODIUM METHYL ALPHA SULFOPALMITATE		
192	SODIUM ETHYL ALPHA SULFOPALMITATE		
193	SODIUM PROPYL ALPHA SULFOPALMITATE		
197	DISODIUM 2 SULFOETHYL ALPHA SULFOPALMITATE		
615	ALPHAPHOSPHONO HEXADECANOIC ACID		
619	MONOSODIUM ALPHAPHOSPHONO HEXADECANOATE		
622	DISODIUM ALPHAPHOSPHONO HEXADECANOATE		
625	TRISODIUM ALPHAPHOSPHONO HEXADECANOATE		
609	SODIUM ISOPROPYL ALPHAPHOSPHONO PALMITATE		
69	SODIUM PENTADECYL 2 SULFATE		
74	SODIUM PENTADECYL 3 SULFATE		
78	SODIUM PENTADECYL 5 SULFATE		
85	SODIUM PENTADECYL 8 SULFATE		
244	PENTADECANE 1-SULFONIC ACID		
230	SODIUM PENTADECANE 1-SULFONATE		
47	SODIUM P 1 METHYL TETRADECYL BENZENE SULFONATE		
142	SODIUM PENTADECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN		
596	TETRAHYDROANACARDOL AMMONIUM MONOSULFONATE		
C-16			
422	POTASSIUM 1-1-2-HEXADECANE TRICARBOXYLATE		
5	SODIUM HEXADECYL 1 SULFATE		
75	SODIUM HEXADECYL 4 SULFATE		
81	SODIUM HEXADECYL 6 SULFATE		
86	SODIUM HEXADECYL 8 SULFATE		
630	LITHIUM HEXADECYL SULFATE		
577	CUPRIC HEXADECYL SULFATE		
60	TRIETHANOL AMMONIUM HEXADECYL SULFATE		
52	SODIUM HEXADECYL MONO OXYETHYLENE SULFATE		
53	SODIUM HEXADECYL DI OXYETHYLENE SULFATE		
54	SODIUM HEXADECYL TRI OXYETHYLENE SULFATE		
55	SODIUM HEXADECYL TETRA OXYETHYLENE SULFATE		
600	SODIUM HEXADECYL MONO-OXYPROPYL SULFATE		
245	HEXADECANE 1-SULFONIC ACID		
184	SODIUM HEXADECYL 1-SULFONATE		
177	SODIUM HEXADECANE 2-SULFONATE		
408	POTASSIUM HEXADECANE 1-SULFONATE		

PART 1. Grouped by charge and arranged by number of carbon atoms in longest hydrophobic tail and by heads - Continued

249	HEXADECANE 1-HYDROXY 2-SULFONIC ACID	C-6	708	HEXYLAMINE
240	SODIUM HEXADECANE 1-HYDROXY 2-SULFONATE		709	HEXYLAMINE HYDROCHLORIDE
508	SODIUM HEXADECYL BENZENE SULFONATE		390	HEXYLAMMONIUM DODECYL SULFATE
C-17			640	HEXYL TRIMETHYLAMMONIUM HEXANE SULFATE
534	OCTADECANOIC ACID		644	HEXYL TRIMETHYLAMMONIUM HEXANE SULFONATE
448	SODIUM OCTADECANOATE /STEARATE/		641	HEXYL TRIMETHYLAMMONIUM OCTANE SULFATE
256	POTASSIUM STEARATE		384	HEXYL TRIMETHYLAMMONIUM DODECYL SULFATE
672	DIPOTASSIUM HEXADECYL MALONATE		354	HEXYL BENZYL DIMETHYLAMMONIUM CHLORIDE
263	SODIUM OLEATE /CIS-9-OCTADECENOATE/	C-8	392	OCTYLAMMONIUM CHLORIDE
305	POTASSIUM OLEATE/ CIS-9-OCTADECENOATE/		391	OCTYLAMMONIUM DODECYL SULFATE
285	HEXANOLAMINE-CH3CH/OH/CH2C/CH3/2NH2-OLEATE		93	OCTYL TRIMETHYL AMMONIUM BROMIDE
264	SODIUM ELAIDATE /TRANS-9-OCTADECENOATE/		347	OCTYL TRIMETHYLAMMONIUM OCTYL SULFATE
629	POTASSIUM ELAIDATE/TRANS-9-OCTADECENOATE/		287	OCTYL TRIMETHYLAMMONIUM OCTANE SULFONATE
283	HEXANOLAMINE-CH3CH/OH/CH2C/CH3/2NH2-ELAIDATE		642	OCTYL TRIMETHYLAMMONIUM DECANE SULFATE
630	POTASSIUM RICINOLEATE/12 HYDROXY OLEATE/		353	OCTYL TRIMETHYLAMMONIUM DECANE SULFONATE
631	POTASSIUM RICINOLEATE/12 HYDROXY ELAIDATE/		385	OCTYL TRIMETHYLAMMONIUM DODECYL SULFATE
255	POTASSIUM 9,10 DIHYDROXY STEARATE		483	DIOCTYL DIMETHYL AMMONIUM CHLORIDE
191	ALPHA SULFOSTEARIC ACID		135	OCTYL C BETAINE HYDROCHLORIDE
553	XYLYL SULFOSTEARIC ACID		359	OCTYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE
9	SODIUM ALPHA SULFOSTEARIC ACID		100	OCTYL PYRIDINIUM BROMIDE
10	DISODIUM ALPHA SULFOSTEARATE		451	PARA DI-ISOBUTYLPHENOXYETHOXYETHYL DIMETHYLBENZYL AMMONIUM CHLORIDE/HYAMINE 1622/
194	SODIUM METHYL ALPHA SULFOSTEARATE	C-9	94	NONYL TRIMETHYL AMMONIUM BROMIDE
195	SODIUM ETHYL ALPHA SULFOSTEARATE		137	ALPHA DIMETHYLAMTNO CAPRIC ACID HYDROCHLORIDE
196	SODIUM PROPYL ALPHA SULFOSTEARATE	C-10	37	DECYLAMMONIUM CHLORIDE
199	SODIUM ISOPROPYL ALPHA SULFOSTEARATE		411	DECYLAMMONIUM ACETATE
198	DISODIUM 2 SULFOETHYL ALPHA SULFOSTEARATE		203	DECYL TRIMETHYL AMMONIUM CHLORIDE
551	PHENYL SULFOSTEARIC ACID		95	DECYL TRIMETHYL AMMONIUM BROMIDE
11	SODIUM ALPHA SULFO PHENYL STEARIC ACID		306	DECYL TRIMETHYLAMMONIUM SULFATE
8	DISODIUM ALPHA SULFOPHENYLSTEARATE		346	DECYL TRIMETHYLAMMONIUM DECYL SULFATE
552	TOLYL SULFOSTEARIC ACID		288	DECYL TRIMETHYLAMMONIUM DECANESULFONATE
14	DISODIUM 9,10 DIHYDROXY ALPHA SULFOSTEARATE		280	DECYL TRIMETHYL AMMONIUM DODECYL SULFATE
12	SODIUM 9,10 DICHLORO ALPHA SULFOSTEARIC ACID		356	DECYL BENZYL DIMETHYLAMMONIUM CHLORIDE
13	DISODIUM 9,10 DICHLORO ALPHA SULFOSTEARATE		360	DECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE
623	DISODIUM ALPHAPHOSPHONO OCTADECANOATE		458	DECYL PYRIDINIUM IODIDE
626	TRISODIUM ALPHAPHOSPHONO OCTADECANOATE	C-11	96	UNDECYL TRIMETHYL AMMONIUM BROMIDE
610	SODIUM METHYL ALPHAPHOSPHONO STEARATE		101	UNDECYL PYRIDINIUM BROMIDE
70	SODIUM HEPTADECYL 2 SULFATE		304	CATOL 607 (N-/LAURYL-COLAMINO-FORMYL-METHYL/ - PYRIDINIUM CHLORIDE)
87	SODIUM HEPTADECYL 9 SULFATE		560	EMULSOL 607L (N-(2-KETO-2-(2,-LAUROXYETHYL AMINO)) ETHYL) PYRIDINIUM CHLORIDE
246	HEPTADECANE 1-SULFONIC ACID	C-12	38	DODECYL AMMONIUM CHLORIDE
231	SODIUM HEPTADECANE 1-SULFONATE		628	DODECYLAMMONIUM BROMIDE
48	SODIUM P 1 METHYL HEXADECYL BENZENE SULFONATE		482	DODECYL AMMONIUM NITRATE
C-18			412	DODECYLAMMONIUM ACETATE
64	SODIUM OCTADECYL 1 SULFATE		449	DODECYLMETHYL AMMONIUM CHLORIDE
71	SODIUM OCTADECYL 2 SULFATE		450	DODECYLDIMETHYL AMMONIUM CHLORIDE
76	SODIUM OCTADECYL 4 SULFATE		399	DODECYL DIMETHYL ETHYLAMMONIUM CHLORIDE
82	SODIUM OCTADECYL 6 SULFATE		345	DIDODECYL DIMETHYLAMMONIUM CHLORIDE
65	TRIETHANOLAMMONIUM OCTADECYL 1 SULFATE		41	DODECYL TRIMETHYL AMMONIUM CHLORIDE
61	SODIUM OLEYL/CIS 9 OCTADECENOYL/ SULFATE		97	DODECYL TRIMETHYL AMMONIUM BROMIDE
62	SODIUM ELAIDYL/TRANS 9 OCTADECENOYL/SULFATE		126	DODECYL TRIMETHYLAMMONIUM IODIDE
250	OCTADECANE 1-HYDROXY 2-SULFONIC ACID		130	DODECYL TRIMETHYL AMMONIUM FLUORIDE
63	SODIUM 9 10 DICHLORO OCTADECYL SULFATE		131	DODECYL TRIMETHYLAMMONIUM NITRATE
56	SODIUM OCTADECYL MONO OXYETHYLENE SULFATE		129	DODECYL TRIMETHYL AMMONIUM BROMATE
57	SODIUM OCTADECYL DI OXYETHYLENE SULFATE		127	DODECYL TRIMETHYL AMMONIUM IODATE
58	SODIUM OCTADECYL TRI OXYETHYLENE SULFATE		307	DODECYL TRIMETHYLAMMONIUM SULFATE
59	SODIUM OCTADECYL TETRA OXYETHYLENE SULFATE		128	DODECYL TRIMETHYL AMMONIUM FORMATE
547	SODIUM OLEYL MONO-OXYETHYLENE SULFATE		643	DODECYL TRIMETHYLAMMONIUM OCTANE SULFATE
548	SODIUM OLEYL DI-OXYETHYLENE SULFATE		281	DODECYL TRIMETHYLAMMONIUM DODECYL SULFATE
549	SODIUM OLEYL TRI-OXYETHYLENE SULFATE		400	DODECYL METHYL DIETHYLAMMONIUM CHLORIDE
601	SODIUM OCTADECYL MONO-OXYPROPYL SULFATE		401	DODECYL TRIETHYLAMMONIUM CHLORIDE
232	OCTADECANE 1-SULFONIC ACID		22	DIMETHYL DODECYL AMINE OXIDE HYDROCHLORIDE
349	SODIUM OCTADECANE 1-SULFONATE		293	DODECYL DIMETHYL AMINE OXIDE HYDROBROMIDE
178	SODIUM OCTADECANE 2-SULFONATE		633	N-DODECYL BETA-ALANINE HYDROCHLORIDE
419	SODIUM ALPHA-HEPTYL UNDECYL SULFONATE		124	DODECYL N BETAINE HYDROCHLORIDE
241	SODIUM OCTADECANE 1-HYDROXY 2-SULFONATE		500	DODECYL TRI-/2-HYDROXYETHYL/AMMONIUM CHLORIDE
509	SODIUM OCTADECYL BENZENE SULFONATE		279	DODECYL BENZYL DIMETHYLAMMONIUM CHLORIDE
C-19			403	DODECYL DIMETHYLPHENYLAMMONIUM CHLORIDE
673	DIPOTASSIUM OCTADECYL MALONATE		404	DODECYL DIMETHYL 2-PHENYLETHYLAMMONIUM CHLORIDE
79	SODIUM NONADECYL 5 SULFATE			C6H5CH2CH2/N/CH3/2/C12H25
88	SODIUM 1 NONYL DECYL SULFATE			
C-20				
683	SODIUM EICOSYLBENZENE SULFONATE			
C-29				
89	SODIUM 1 TETRADECYL PENTADECYL SULFATE			
1B. CATIONICS BY NUMBER OF CARBON ATOMS				
C-3				
706	PERFLUORO PROPYLAMINE			
707	PERFLUORO PROPYLAMINE HYDROCHLORIDE			

PART 1. Grouped by charge and arranged by number of carbon atoms in longest hydrophobic tail and by heads—Continued

407	DODECYL DIMETHYL 3-PHENYLPROPYLAMMONIUM CHLORIDE C6H5CH2CH2/N/CH3/2/C12H25	1C. NONIONICS BY NUMBER OF CARBON ATOMS
405	DODECYL METHYLETHYLBENZYLAMMONIUM CHLORIDE	C-2
371	DODECYL 3-4-DIMETHOXYBENZYL DIMETHYLAMMONIUM CHLORIDE	645
370	DODECYL 3-4-METHYLENEDIOXYBENZYL DIMETHYLAMMONIUM CHLORIDE	PARA/BETA-D-GLUCOSYL/ETHYLBENZENE
365	DODECYL 2-CHLOROENZYL DIMETHYLAMMONIUM CHLORIDE	C-3
367	DODECYL 4-CHLOROENZYL DIMETHYLAMMONIUM CHLORIDE	43
366	DODECYL 2-4-DICHLOROENZYL DIMETHYLAMMONIUM CHLORIDE	706
369	DODECYL 3-4-DICHLOROENZYL DIMETHYLAMMONIUM CHLORIDE	646
406	DODECYL DIMETHYL META-TRIFLUOROMETHYLBENZYL AMMONIUM CHLORIDE CF3C6H4CH2/N/CH3/2/C12H25	PARA/BETA-D-GLUCOSYL/BUTYLBENZENE
361	DODECYL 4-NITROENZYL DIMETHYL AMMONIUM CHLORIDE	650
368	DODECYL 2-HYDROXY-5-NITROENZYL DIMETHYLAMMONIUM CHLORIDE	461
278	DODECYL PYRIDINIUM CHLORIDE	BUTYL/OXYETHYLENE/1 ALCOHOL—BUTYL GLYCOL ETHER HOMOGENEOUS HEAD GROUP
290	DODECYL PYRIDINIUM BROMIDE	393
376	DODECYL PYRIDINIUM IODIDE	394
717	DODECYLQUINOLINIUM BROMIDE	1-METHYL PROPYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP
528	DODECYL TROPYLIUM PERCHLORATE	674
460	DODECYL TROPYLIUM MONOPHOSPHATE	DIISOBUTYL BENZENE/OXYETHYLENE/6 ALCOHOL (DB) BRANCHED CHAIN, NATURAL OE DISTRIBUTION
491	DODECYL TROPYLIUM BISULFATE	
C-13		C-5
402	TRIDECYL TRIMETHYLAMMONIUM CHLORIDE	700
		HEXANOIC ACID
C-14		C-6
39	TETRADECYL AMMONIUM CHLORIDE	708
413	TETRADECYLAMMONIUM ACETATE	714
42	TETRADECYL TRIMETHYL AMMONIUM CHLORIDE	686
98	TETRADECYL TRIMETHYL AMMONIUM BROMIDE	684
308	TETRADECYL TRIMETHYLAMMONIUM SULFATE	685
291	TETRADECYL TRIPROPYLAMMONIUM BROMIDE	687
125	TETRADECYL N BETAINE HYDROCHLORIDE	457
357	TETRADECYL BENZYL DIMETHYLAMMONIUM CHLORIDE	1-4-HEXANEDIOL
362	TETRADECYL 4-NITROENZYL DIMETHYLAMMONIUM CHLORIDE	703
102	TETRADECYL PYRIDINIUM BROMIDE	4-HEXYL RESORCINOL
479	TETRADECYL PYRIDINIUM IODIDE	103
		HEXYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENOUS HEAD GROUP
C-16		380
186	HEXADECYL AMMONIUM CHLORIDE	HEXYL/OXYETHYLENE/4 ALCOHOL HOMOGENOUS HEAD GROUP
414	HEXADECYLAMMONIUM ACETATE	381
478	HEXADECYL DIMETHYLETHYLAMMONIUM CHLORIDE	HEXYL/OXYETHYLENE/5 ALCOHOL HOMOGENOUS HEAD GROUP
265	HEXADECYL TRIMETHYL AMMONIUM CHLORIDE	294
99	HEXADECYL TRIMETHYLAMMONIUM BROMIDE	HEXYL/OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP
309	HEXADECYL TRIMETHYLAMMONIUM SULFATE	395
666	HEXADECYL TRIBUTYLAMMONIUM BROMATE	2-ETHYL BUTYL/OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP
292	HEXADECYL TRIPROPYLAMMONIUM BROMIDE	
266	HEXADECYL DIMETHYL 2-HYDROXYETHYL AMMONIUM CHLORIDE	C-7
267	HEXADECYL DI-/2-HYDROXYETHYL/METHYL AMMONIUMCHLORIDE	529
268	HEXADECYL TRI-/2-HYDROXYETHYL/ AMMONIUM CHLORIDE	715
269	HEXADECYLDIMETHYL2, 3-DIHYDROXYPROPYLAMMONIUMCHLORIDE	HEPTYL DIMETHYL AMINE OXIDE
275	HEXADECYL DIMETHYLBENZYLAMMONIUM CHLORIDE	586
363	HEXADECYL 4-NITROENZYL DIMETHYLAMMONIUM CHLORIDE	METHYL /OXYETHYLENE/ 7.6 OCTANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
274	HEXADECYL PYRIDINIUM CHLORIDE	
427	HEXADECYL PYRIDINIUM BROMIDE	C-8
480	HEXADECYL PYRIDINIUM IODIDE	118
660	HEXADECYL PYRIDINIUM IODATE	OCTYL N BETAINE
693	N-CETYL 2-METHYL PYRIDINIUM CHLORIDE	132
696	N-CETYL 2-METHYL PYRIDINIUM IODIDE	OCTYL C BETAINE
694	N-CETYL 3-METHYL PYRIDINIUM CHLORIDE	251
697	N-CETYL-3-METHYL PYRIDINIUM IODIDE	OCTYL DIMETHYL AMINE OXIDE
695	N-CETYL 4-METHYL PYRIDINIUM CHLORIDE	348
698	N-CETYL-4-METHYL PYRIDINIUM IODIDE	NN-DIMETHYL 1-1-DIHYDROPTENADECAFLURO OCTYL AMINE N- OXIDE /C7F15CH2N/CH3/20/
C-18		710
187	OCTADECYL AMMONIUM CHLORIDE	OCTYL DIMETHYL PHOSPHINE OXIDE
415	OCTADECYLAMMONIUM ACETATE	688
270	OCTADECYL TRIMETHYLAMMONIUM CHLORIDE	OCTYL SULFINYLETHANOL
477	OCTADECYL TRIMETHYLAMMONIUM BROMIDE	689
654	OCTADECYL TRIMETHYLAMMONIUM NITRATE	OCTYL SULFINYLPROPANOL
658	OCTADECYL TRIMETHYLAMMONIUM BROMATE	690
659	OCTADECYL TRIMETHYLAMMONIUM FORMATE	OCTYL METHYL SULFOXIDE
667	OCTADECYL TRIMETHYLAMMONIUM OXALATE	648
662	OCTADECYL TRIETHYLAMMONIUM BROMATE	ALPHA-D-GLUCOSYL OCTANE
663	OCTADECYL TRIPROPYLAMMONIUM BROMATE	424
664	OCTADECYL TRIBUTYLAMMONIUM BROMATE	OCTYL ALPHA-GLYCERYL ETHER
665	OCTADECYL TRIAMYLAMMONIUM BROMATE	18
359	OCTADECYL BENZYL DIMETHYLAMMONIUM CHLORIDE	OCTYL BETA D GLUCOSIDE
364	OCTADECYL 4-NITROENZYL DIMETHYLAMMONIUM CHLORIDE	423
655	OCTADECYL PYRIDINIUM CHLORIDE	OCTYL/OXYETHYLENE/1 ALCOHOL—OCTYL GLYCOL ETHER HOMOGENEOUS HEAD GROUP
657	OCTADECYL PYRIDINIUM BROMIDE	104
481	OCTADECYL PYRIDINIUM IODIDE	OCTYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENOUS HEAD GROUP
656	OCTADECYL PYRIDINIUM NITRATE	105
661	OCTADECYL PYRIDINIUM IODATE	OCTYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP
		106
		OCTYL /OXYETHYLENE/ 9 ALCOHOL HOMOGENOUS HEAD GROUP
		515
		ISO-OCTYL/OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		396
		2-PROPYL PENTYL/OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP
		335
		OCTYL BENZENE/OXYETHYLENE/8.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		675
		OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
		317
		T-OCTYL BENZENE/OXYETHYLENE/10 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
		318
		T-OCTYL BENZENE/OXYETHYLENE/20 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
		319
		T-OCTYL BENZENE/OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
		207
		P-T-OCTYL BENZENE /OXYETHYLENE/1 ALCOHOL HOMOGENOUS HEAD GROUP
		217
		P-T-OCTYL BENZENE /OXYETHYLENE/1 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS

PART I. Grouped by charge and arranged by number of carbon atoms in longest hydrophobic tail and by heads—Continued

208	P-T-OCTYL BENZENE /OXYETHYLENE/2 ALCOHOL HOMOGENOUS HEAD GROUP	155	NONYL BENZENE /OXYETHYLENE/ 15.4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
218	P-T-OCTYL BENZENE /OXYETHYLENE/2 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	322	NONYL BENZENE/OXYETHYLENE/20 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
209	P-T-OCTYL BENZENE /OXYETHYLENE/3 ALCOHOL HOMOGENOUS HEAD GROUP	156	NONYL BENZENE /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
219	P-T-OCTYL BENZENE /OXYETHYLENE/3 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	323	NONYL BENZENE/OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
210	P-T-OCTYL BENZENE /OXYETHYLENE/4 ALCOHOL HOMOGENOUS HEAD GROUP	721	NONYL BENZENE /OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN DIALYSED
220	P-T-OCTYL BENZENE /OXYETHYLENE/4 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	169	NONYL BENZENE /OXYETHYLENE/ 30 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
211	P-T-OCTYL BENZENE /OXYETHYLENE/5 ALCOHOL HOMOGENOUS HEAD GROUP	157	NONYL BENZENE /OXYETHYLENE/ 30.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
221	P-T-OCTYL BENZENE /OXYETHYLENE/5 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	324	NONYL BENZENE/OXYETHYLENE/50 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
212	P-T-OCTYL BENZENE /OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP	338	NONYL BENZENE/OXYETHYLENE/100 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
222	P-T-OCTYL BENZENE /OXYETHYLENE/6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
213	P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL HOMOGENOUS HEAD GROUP	C-10	
223	P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	119	DECYL N BETAINÉ
214	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL HOMOGENOUS HEAD GROUP	133	DECYL C BETAINÉ
224	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	252	DECYL DIMETHYL AMINE OXIDE
215	P-T-OCTYL BENZENE /OXYETHYLENE/9 ALCOHOL HOMOGENOUS HEAD GROUP	711	DECYL DIMETHYL PHOSPHINE OXIDE
223	P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	587	DECYL DIMETHYLAMMONIOPROPANE SULFONATE
214	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL HOMOGENOUS HEAD GROUP	692	DECYL SULFINYLETHANOL
224	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	19	DECYL BETA D GLUCOSIDE
215	P-T-OCTYL BENZENE /OXYETHYLENE/9 ALCOHOL HOMOGENOUS HEAD GROUP	201	DECYL /OXYETHYLENE/8 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS
223	P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	202	DECYL /OXYETHYLENE/11 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS
214	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL HOMOGENOUS HEAD GROUP	204	DECYL /OXYETHYLENE/12 OXYMETHYL REDUCED POLYDISPERSION
224	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	107	DECYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENOUS HEAD GROUP
215	P-T-OCTYL BENZENE /OXYETHYLENE/9 ALCOHOL HOMOGENOUS HEAD GROUP	379	DECYL/OXYETHYLENE/4 ALCOHOL HOMOGENOUS HEAD GROUP
225	P-T-OCTYL BENZENE /OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	519	DECYL/OXO-PROCESS/ /OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
206	TRITON X-100(P-T-OCTYL BENZENE/OXYETHYLENE/9)NATURAL DISTRIBUTION OF HEAD GROUPS	378	DECYL/OXYETHYLENE/5 ALCOHOL HOMOGENOUS HEAD GROUP
216	P-T-OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL HOMOGENOUS HEAD GROUP	143	DECYL /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
226	P-T-OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	108	DECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP
227	P-T-OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	109	DECYL /OXYETHYLENE/ 9 ALCOHOL HOMOGENOUS HEAD GROUP
228	P-T-OCTYL BENZENE /OXYETHYLENE/40 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	144	DECYL /OXYETHYLENE/ 10.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
C-9		517	DECYL/OXO-PROCESS/ /OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
530	DECANOIC ACID	145	DECYL /OXYETHYLENE/ 14.9 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
254	NONYL DIMETHYL AMINE OXIDE	146	DECYL /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
580	METHYL /OXYETHYLENE/ 7.0 DECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS	147	DECYL /OXYETHYLENE/ 29.4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
581	METHYL /OXYETHYLENE/ 10.3 DECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS	397	2-BUTYL HEXYL/OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP
578	METHYL /OXYETHYLENE/ 11.9 DECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS	398	2-BUTYL HEXYL/OXYETHYLENE/9 ALCOHOL HOMOGENOUS HEAD GROUP
582	METHYL /OXYETHYLENE/ 16.0 DECANOATE NATURAL DISTRIBUTION OF HEAD GROUPS	523	DECYL BENZENE PARA/OXYETHYLENE/11.0 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
516	NONYL/OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	522	DECYL BENZENE ORTHO/OXYETHYLENE/11.2 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
153	NONYL BENZENE /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	C-11	
336	NONYL BENZENE/OXYETHYLENE/9.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	531	DODECANOIC ACID
154	NONYL BENZENE /OXYETHYLENE/ 9.8 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	120	UNDECYL N BETAINÉ
320	NONYL BENZENE/OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION	713	UNDECYL DIMETHYL AMINE OXIDE
167	NONYL BENZENE /OXYETHYLENE/ 10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	495	SUCROSE MONOLAURATE
337	NONYL BENZENE/OXYETHYLENE/10.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	276	NONAETHYLENE GLYCOL MONODODECANOATE NATURAL DISTRIBUTION OF HEAD GROUPS
463	NONYL BENZENE/OXYETHYLENE/11 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	583	METHYL /OXYETHYLENE/ 6.0 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
321	NONYL BENZENE/OXYETHYLENE/15 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION	584	METHYL /OXYETHYLENE/ 8.4 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
464	NONYL BENZENE/OXYETHYLENE/15 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	585	METHYL /OXYETHYLENE/ 11.2 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
168	NONYL BENZENE /OXYETHYLENE/ 15 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	579	METHYL /OXYETHYLENE/ 12.5 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
		440	/OXYETHYLENE/4 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
		441	/OXYETHYLENE/8 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
		442	/OXYETHYLENE/10 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
		443	/OXYETHYLENE/20 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
		444	/OXYETHYLENE/25 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS

PART 1. Grouped by charge and arranged by number of carbon atoms in longest hydrophobic tail and by heads—Continued

520	UNDECYL/OXYETHYLENE/8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	148	TRIDECYL /OXYETHYLENE/ 5.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
550	LAURIC ACID DIETHANOLAMINE CONDENSATE	431	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/8.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
C-12			
121	DODECYL N BETAINE	465	TRIDECYL/OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
592	DODECYL N-DIETHYL N-BETAINE	466	TRIDECYL/SECONDARY/ /OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
134	DODECYL C BETAINE	313	TRIDECYL/OXYETHYLENE/9.5 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
21	DIMETHYL DODECYL AMINE OXIDE	521	TRIDECYL/OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
712	DODECYL DIMETHYL PHOSPHINE OXIDE	432	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
590	DODECYL DIMETHYLAMMONIOPROPANE CARBOXYLATE	149	TRIDECYL /OXYETHYLENE/ 10.1 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
588	DODECYL DIMETHYLAMMONIOPROPANE SULFONATE	467	TRIDECYL/SECONDARY/ /OXYETHYLENE/12 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
593	DIMETHYL DODECYLAMMONIOPROPANE HYDROXY SULFONATE	314	TRIDECYL/OXYETHYLENE/14 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
594	DODECYL DIPROPYL AMMONIOPROPANE SULFONATE	433	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/15 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
595	DODECYL DIMETHYL AMMONIOPROPANE SULFATE	150	TRIDECYL /OXYETHYLENE/ 15.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
591	DODECYL DIMETHYLPHOSPHONIOPROPANE SULFONATE	315	TRIDECYL/OXYETHYLENE/20 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
649	ALPHA-D-GLUCOSYL DODECANE	151	TRIDECYL /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
20	DODECYL BETA D GLUCOSIDE	434	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/22 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
205	DODECYL /OXYETHYLENE/12 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS	316	TRIDECYL/OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
325	DODECYL/OXYETHYLENE/4 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS	152	TRIDECYL /OXYETHYLENE/ 30.6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
377	DODECYL/OXYETHYLENE/ 5 ALCOHOL HOMOGENEOUS HEAD GROUP	C-14	
110	DODECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP	122	TETRADECYL N BETAINE
468	DODECYL/OXYETHYLENE/6.2 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	253	TETRADECYL DIMETHYL AMINE OXIDE
488	DODECYL/OXYETHYLENE/7 ALCOHOL HOMOGENEOUS HEAD GROUP	289	TETRADECYL/OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP
115	DODECYL /OXYETHYLENE/7 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS	C-15	
469	DODECYL/OXYETHYLENE/7.6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	533	HEXADECANOIC ACID
163	DODECYL /OXYETHYLENE/ 8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	498	SUCROSE MONOPALMITATE
469	DODECYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP	C-16	
310	DODECYL/OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	133	HEXADECYL N BETAINE
470	DODECYL/OXYETHYLENE/10.6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	589	HEXADECYLDIMETHYLAMMONIOPROPANE SULFONATE
490	DODECYL/OXYETHYLENE/12 ALCOHOL HOMOGENEOUS HEAD GROUP	499	SUCROSE DI-PALMITATE
164	DODECYL /OXYETHYLENE/ 12 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	282	HEXADECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP
326	DODECYL/OXYETHYLENE/14 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS	330	HEXADECYL/OXYETHYLENE/7 ALCOHOL HOMOGENEOUS HEAD GROUP
471	DODECYL/OXYETHYLENE/15.8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	331	HEXADECYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP
716	DODECYL /OXYETHYLENE/16 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS	332	HEXADECYL/OXYETHYLENE/12 ALCOHOL HOMOGENEOUS HEAD GROUP
165	DODECYL /OXYETHYLENE/ 18 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	524	HEXADECYL/OXYETHYLENE/14 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
472	DODECYL/OXYETHYLENE/20.4 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	333	HEXADECYL/OXYETHYLENE/15 ALCOHOL HOMOGENEOUS HEAD GROUP
327	DODECYL/OXYETHYLENE/23 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS	535	HEXADECYL/OXYETHYLENE/18 ALCOHOL
166	DODECYL /OXYETHYLENE/ 23 ALCOHOL NATURAL DISTRIBUTION OF HEAD G OUPS	334	HEXADECYL/OXYETHYLENE/21 ALCOHOL HOMOGENEOUS HEAD GROUP
473	DODECYL/OXYETHYLENE/27.1 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	117	HEXADECYL /OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS
170	DODECYL /OXYETHYLENE/ 28 ALCOHOL REDUCED DISTRIBUTION OF HEAD GROUPS	C-17	
116	DODECYL /OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS	534	OCTADECANOIC ACID
474	DODECYL/OXYETHYLENE/38.6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	496	SUCROSE MONOSTEARATE
475	DODECYL/OXYETHYLENE/37.3 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	553	XYLYL SULFOSTEARIC ACID
518	TRIMETHYLNONYL/OXYETHYLENE/6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	C-18	
158	DODECYL BENZENE /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	435	OCTADECYL/OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
159	DODECYL BENZENE /OXYETHYLENE/ 10.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	328	OCTADECYL/OXYETHYLENE/14 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
160	DODECYL BENZENE /OXYETHYLENE/ 15.1 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	436	OCTADECYL/OXYETHYLENE/20 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
161	DODECYL BENZENE /OXYETHYLENE/ 20.1 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	329	OCTADECYL/OXYETHYLENE/100 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
162	DODECYL BENZENE /OXYETHYLENE/ 30.6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	437	OLEYL/CIS-9-OCTADECENOYL/ /OXYETHYLENE/12 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
C-13			
532	TETRADECANOIC ACID	438	OLEYL/CIS-9-OCTADECENOYL/ /OXYETHYLENE/16 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
497	SUCROSE MONOMYRISTATE	439	OLEYL/CIS-9-OCTADECENOYL/ /OXYETHYLENE/20 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUP
312	TRIDECYL/OXYETHYLENE/5 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION		

Structural Indexes of Compounds with Keys to Compound Numbers—Continued

PART 2. *Surfactants grouped by charge and by head group and arranged by number of carbon atoms in longest hydrophobic tail.*

2A. ANIONICS BY HEAD GROUP

CARBOXYLIC ACID

428 PERFLUORO ACETIC ACID
 429 PERFLUORO PROPIONIC ACID
 43 BUTYRIC ACID
 430 PERFLUORO BUTYRIC ACID
 452 3-4-DICHLOROPERFLUORO BUTYRIC/KEL-F/ACID
 700 HEXANOIC ACID
 416 PERFLUORO HEXANOIC ACID
 453 3-5-6-TRICHLOROPERFLUORO HEXANOIC/KEL-F/ACID
 374 DODECAFLUOROHEPTANOIC ACID H/CF₂/6COOH
 529 OCTANOIC ACID
 417 PERFLUORO OCTANOIC ACID
 454 3-5-7-8-TETRACHLOROPERFLUORO OCTANOIC/KEL-F/ACID
 375 HEXADECAPLUORONONANOIC ACID H/CF₂/8COOH
 530 DECANOIC ACID
 455 PERFLUORO DECANOIC ACID
 531 DODECANOIC ACID
 532 TETRADECANOIC ACID
 533 HEXADECANOIC ACID
 534 OCTADECANOIC ACID

MONOCARBOXYLATE

699 SODIUM BUTYRATE
 484 SODIUM PENTANOATE/VALERATE/
 485 SODIUM HEXANOATE/CAPROATE/
 188 POTASSIUM HEXANOATE
 701 POTASSIUM PERFLUROHEXANOATE
 486 SODIUM HEPTANOATE
 296 POTASSIUM HEPTANOATE
 355 AMMONIUM DODECAFLUROHEPTANOATE H/CF₂/6COONH₄
 476 SODIUM OCTANOATE
 44 POTASSIUM OCTANOATE
 456 POTASSIUM PERFLURO OCTANOATE
 303 DI-ISOPROPYLAMONIUM CAPRYLATE
 284 HEXANOLAMINE-CH₃CH₂/OH/CH₂C/CH₃/2NH₂-OCTANOATE
 487 SODIUM NONANOATE
 350 POTASSIUM NONANOATE
 372 AMMONIUM HEXADECAPLUORONONANOATE H/CF₂/8 COO NH₄
 299 SODIUM DECANOATE
 90 POTASSIUM DECANOATE
 702 POTASSIUM PERFLURODECANOATE
 297 POTASSIUM UNDECANOATE
 527 SODIUM UNDECANE-3-CARBOXYLATE
 373 AMMONIUM EICOSAPLUOROUNDECANOATE H/CF₂/10 COO NH₄
 273 SODIUM DODECANOATE
 91 POTASSIUM DODECANOATE
 627 CESIUM DODECANOATE
 277 BENZYL TRIMETHYL AMMONIUM DODECANOATE
 351 POTASSIUM TRIDECANOATE
 298 SODIUM TETRADECANOATE
 92 POTASSIUM TETRADECANOATE
 300 SODIUM HEXADECANOATE
 185 POTASSIUM HEXADECANOATE
 448 SODIUM OCTADECANOATE /STEARATE/
 256 POTASSIUM STEARATE
 263 SODIUM OLEATE /CIS-9-OCTADECENOATE/
 305 POTASSIUM OLEATE/ CIS-9-OCTADECENOATE/
 285 HEXANOLAMINE-CH₃CH₂/OH/CH₂C/CH₃/2NH₂-OLEATE
 264 SODIUM ELAIDATE /TRANS-9-OCTADECENOATE/
 629 POTASSIUM ELAIDATE/TRANS-9-OCTADECENOATE/
 283 HEXANOLAMINE-CH₃CH₂/OH/CH₂C/CH₃/2NH₂-ELAIDATE
 255 POTASSIUM 9,10 DIHYDROXY STEARATE
 630 POTASSIUM RICINOLEATE/12 HYDROXY OLEATE/
 651 POTASSIUM KICINELAIDATE/12 HYDROXY ELAIDATE/

POLYCARBOXYLATE

668 DIPOTASSIUM OCTYL MALONATE
 669 DIPOTASSIUM DECYL MALONATE
 670 DIPOTASSIUM DODECYL MALONATE
 671 DIPOTASSIUM TETRADECYL MALONATE
 672 DIPOTASSIUM HEXADECYL MALONATE
 673 DIPOTASSIUM OCTADECYL MALONATE
 420 POTASSIUM 1-1-2-OCTANE TRICARBOXYLATE
 425 POTASSIUM 1-1-2-DECANE TRICARBOXYLATE

421 POTASSIUM 1-1-2-DODECANE TRICARBOXYLATE
 426 POTASSIUM 1-1-2-TETRADECANE TRICARBOXYLATE
 422 POTASSIUM 1-1-2-HEXADECANE TRICARBOXYLATE

SULFO CARBOXYLIC ACID

6 SODIUM ALPHA SULFOPELARGONIC ACID
 602 ALPHA SULFO LAURIC ACID
 235 SODIUM ALPHA SULFO LAURIC ACID
 189 ALPHA SULFOMYRISTIC ACID
 236 SODIUM ALPHA SULFO MYRISTIC ACID
 190 ALPHA SULFOPALMITIC ACID
 237 SODIUM ALPHA SULFO PALMITIC ACID
 191 ALPHA SULFOSTEARIC ACID
 551 PHENYL SULFOSTEARIC ACID
 552 TOLYL SULFOSTEARIC ACID
 553 XYLIL SULFOSTEARIC ACID
 9 SODIUM ALPHA SULFOSTEARIC ACID
 11 SODIUM ALPHA SULFO PHENYL STEARIC ACID
 12 SODIUM 9,10 DICHLORO ALPHA SULFOSTEARIC ACID

SULFO CARBOXYLATE

233 DISODIUM ALPHA SULFO MYRISTATE
 234 DISODIUM ALPHA SULFO PALMITATE
 197 DISODIUM 2 SULFOETHYL ALPHA SULFOPALMITATE
 8 DISODIUM ALPHA SULFOPHENYLSTEARATE
 10 DISODIUM ALPHA SULFOSTEARATE
 198 DISODIUM 2 SULFOETHYL ALPHA SULFOSTEARATE
 13 DISODIUM 9,10 DICHLORO ALPHA SULFOSTEARATE
 14 DISODIUM 9,10 DIHYDROXY ALPHA SULFOSTEARATE

PHOSPHONO CARBOXYLIC ACID

611 ALPHAPHOSPHONO PELARGONIC ACID
 612 ALPHAPHOSPHONO DECANOIC ACID
 613 ALPHAPHOSPHONO DODECANOIC ACID
 614 ALPHAPHOSPHONO TETRADECANOIC ACID
 615 ALPHAPHOSPHONO HEXADECANOIC ACID

PHOSPHONO CARBOXYLATE

616 MONOSODIUM ALPHAPHOSPHONO DECANOATE
 617 MONOSODIUM ALPHAPHOSPHONO DODECANOATE
 618 MONOSODIUM ALPHAPHOSPHONO TETRADECANOATE
 619 MONOSODIUM ALPHAPHOSPHONO HEXADECANOATE
 620 DISODIUM ALPHAPHOSPHONO DODECANOATE
 621 DISODIUM ALPHAPHOSPHONO TETRADECANOATE
 622 DISODIUM ALPHAPHOSPHONO HEXADECANOATE
 623 DISODIUM ALPHAPHOSPHONO OCTADECANOATE
 624 TRISODIUM ALPHAPHOSPHONO TETRADECANOATE
 625 TRISODIUM ALPHAPHOSPHONO HEXADECANOATE
 626 TRISODIUM ALPHAPHOSPHONO OCTADECANOATE

SULFO CARBOXYLIC ESTER

25 SODIUM ETHYL ALPHA SULFOPELARGONATE
 26 SODIUM AMYL ALPHA SULFOPELARGONATE
 27 SODIUM HEXYL ALPHA SULFOPELARGONATE
 28 SODIUM HEPTYL ALPHA SULFOPELARGONATE
 35 SODIUM H/CF₂CF₂/3CH₂ ALPHA SULFOPELARGONATE
 7 SODIUM OCTYL ALPHA SULFOPELARGONATE
 31 SODIUM 2 OCTYL ALPHA SULFOPELARGONATE
 32 SODIUM 2 ETHYLHEXYL ALPHA SULFOPELARGONATE
 29 SODIUM NONYL ALPHA SULFOPELARGONATE
 30 SODIUM DECYL ALPHA SULFOPELARGONATE
 33 SODIUM /OXO/ DECYL ALPHA SULFOPELARGONATE
 34 SODIUM DODECYL ALPHA SULFOPELARGONATE
 603 SODIUM PROPYL ALPHA SULFO LAURATE
 604 SODIUM METHYL ALPHA SULFO MYRISTATE
 36 SODIUM METHYL ALPHA SULFOPALMITATE
 192 SODIUM ETHYL ALPHA SULFOPALMITATE
 193 SODIUM PROPYL ALPHA SULFOPALMITATE
 194 SODIUM METHYL ALPHA SULFOSTEARATE
 195 SODIUM ETHYL ALPHA SULFOSTEARATE
 196 SODIUM PROPYL ALPHA SULFOSTEARATE
 199 SODIUM ISOPROPYL ALPHA SULFOSTEARATE

PHOSPHONO ESTER

605 SODIUM AMYL ALPHAPHOSPHONO PELARGONATE

PART 2. Surfactants grouped by charge and by head group and arranged by number of carbon atoms in longest hydrophobic tail—Continued

606 SODIUM AMYL ALPHAPHOSPHONO CAPRATE
 607 SODIUM ISOPROPYL ALPHAPHOSPHONO LAURATE
 608 SODIUM METHYL ALPHAPHOSPHONO MYRISTATE
 610 SODIUM METHYL ALPHAPHOSPHONO STEARATE
 609 SODIUM ISOPROPYL ALPHAPHOSPHONO PALMITATE

SULFATE

2 SODIUM OCTYL 1 SULFATE
 347 OCTYL TRIMETHYLAMMONIUM OCTYL SULFATE
 643 DODECYL TRIMETHYLAMMONIUM OCTANE SULFATE
 66 SODIUM OCTYL 2 SULFATE
 295 SODIUM NONYL 1-SULFATE
 3 SODIUM DECYL 1 SULFATE
 642 OCTYL TRIMETHYLAMMONIUM DECANE SULFATE
 79 SODIUM NONADECYL 5 SULFATE
 346 DECYL TRIMETHYLAMMONIUM DECYL SULFATE
 15 SODIUM DECYL 2 SULFATE
 311 SODIUM UNDECYL 1-SULFATE
 72 SODIUM UNDECYL 3 SULFATE
 80 SODIUM UNDECYL 6 SULFATE

C-12

705 DODECYL SULFURIC ACID
 1 SODIUM DODECYL 1 SULFATE
 654 POTASSIUM DODECYL SULFATE
 111 LITHIUM DODECYL 1 SULFATE
 23 SILVER DODECYL 1 SULFATE
 568 MAGNESIUM DODECYL SULFATE
 24 CALCIUM DODECYL 1 SULFATE
 569 STRONTIUM DODECYL SULFATE
 575 NICKEL DODECYL SULFATE
 572 COBALTOUS DODECYL SULFATE
 574 ZINC DODECYL SULFATE
 570 LEAD DODECYL SULFATE
 571 MANGANESE DODECYL SULFATE
 573 CUPRIC DODECYL SULFATE
 386 AMMONIUM DODECYL SULFATE
 387 METHYLAMMONIUM DODECYL SULFATE
 388 ETHYLAMMONIUM DODECYL SULFATE
 389 BUTYLAMMONIUM DODECYL SULFATE
 112 TETRAMETHYL AMMONIUM DODECYL 1 SULFATE
 382 ETHYL TRIMETHYLAMMONIUM DODECYL SULFATE
 383 BUTYL TRIMETHYLAMMONIUM DODECYL SULFATE
 718 TETRAETHYLAMMONIUM DODECYL SULFATE
 719 TETRABUTYLAMMONIUM DODECYL SULFATE
 720 1-6-DITRIMETHYLAMMONIUM-HEXANE/DODECYL SULFATE/2
 409 TRIETHANOLAMMONIUM DODECYL SULFATE
 410 MORPHOLINIUM DODECYL SULFATE
 391 OCTYLAMMONIUM DODECYL SULFATE
 385 OCTYL TRIMETHYLAMMONIUM DODECYL SULFATE
 280 DECYL TRIMETHYL AMMONIUM DODECYL SULFATE
 281 DODECYL TRIMETHYLAMMONIUM DODECYL SULFATE
 67 SODIUM DODECYL 2 SULFATE
 562 SODIUM DODECENYL SULFATE
 68 SODIUM TRIDECYL 2 SULFATE
 83 SODIUM TRIDECYL 7 SULFATE
 4 SODIUM TETRADECYL 1 SULFATE
 526 SODIUM 2-DI-N-HEXYL ETHYL SULFATE
 637 LITHIUM TETRADECYL SULFATE
 576 CUPRIC TETRADECYL SULFATE
 16 SODIUM TETRADECYL 2 SULFATE
 73 SODIUM TETRADECYL 3 SULFATE
 17 SODIUM TETRADECYL 4 SULFATE
 77 SODIUM TETRADECYL 5 SULFATE
 525 SODIUM TETRADECYL 6-SULFATE
 84 SODIUM TETRADECYL 7 SULFATE
 69 SODIUM PENTADECYL 2 SULFATE
 74 SODIUM PENTADECYL 3 SULFATE
 78 SODIUM PENTADECYL 5 SULFATE
 85 SODIUM PENTADECYL 8 SULFATE
 5 SODIUM HEXADECYL 1 SULFATE
 638 LITHIUM HEXADECYL SULFATE
 577 CUPRIC HEXADECYL SULFATE
 60 TRIETHANOL AMMONIUM HEXADECYL SULFATE
 75 SODIUM HEXADECYL 4 SULFATE
 81 SODIUM HEXADECYL 6 SULFATE
 86 SODIUM HEXADECYL 8 SULFATE
 70 SODIUM HEPTADECYL 2 SULFATE
 87 SODIUM HEPTADECYL 9 SULFATE

C-18

64 SODIUM OCTADECYL 1 SULFATE
 65 TRIETHANOLAMMONIUM OCTADECYL 1 SULFATE
 61 SODIUM OLEYL/CIS 9 OCTADECENOYL/ SULFATE

62 SODIUM ELAIDYL/TRANS 9 OCTADECENOYL/SULFATE
 63 SODIUM 9 10 DICHLORO OCTADECYL SULFATE
 71 SODIUM OCTADECYL 2 SULFATE
 76 SODIUM OCTADECYL 4 SULFATE
 82 SODIUM OCTADECYL 6 SULFATE
 88 SODIUM 1 NONYL DECYL SULFATE
 89 SODIUM 1 TETRADECYL PENTADECYL SULFATE

POLYOL SULFATE

462 SODIUM MONOLAURIN SULFATE

THIOSULFATE

639 SODIUM UNDECYL THIOSULFATE
 636 SODIUM DODECYL THIOSULFATE

ALKYL SULFONATE

343 SODIUM PENTANE SULFONATE
 344 SODIUM HEXANE SULFONATE
 339 MAGNESIUM HEXANE SULFONATE
 181 SODIUM OCTYL 1-SULFONATE
 340 MAGNESIUM OCTANE SULFONATE
 287 OCTYL TRIMETHYLAMMONIUM OCTANE SULFONATE
 536 NONYL SULFONIC ACID
 288 DECYL TRIMETHYLAMMONIUM DECANESULFONATE
 182 SODIUM DECYL 1-SULFONATE
 341 MAGNESIUM DECANESULFONATE
 353 OCTYL TRIMETHYLAMMONIUM DECANESULFONATE
 537 UNDECYL SULFONIC ACID
 410 SODIUM UNDECYL SULFONATE
 200 DODECYL SULFONIC ACID
 179 SODIUM DODECANE 1-SULFONATE
 40 POTASSIUM DODECYL 1 SULFONATE
 635 LITHIUM DODECYL SULFONATE
 342 MAGNESIUM DODECANE SULFONATE
 175 SODIUM DODECANE 2-SULFONATE
 242 TRIDECANE 1-SULFONIC ACID
 229 SODIUM TRIDECANE 1-SULFONATE
 243 TETRADECANE 1-SULFONIC ACID
 183 SODIUM TETRADECYL 1-SULFONATE
 176 SODIUM TETRADECANE 2-SULFONATE
 244 PENTADECANE 1-SULFONIC ACID
 230 SODIUM PENTADECANE 1-SULFONATE
 245 HEXADECANE 1-SULFONIC ACID
 184 SODIUM HEXADECYL 1-SULFONATE
 408 POTASSIUM HEXADECANE 1-SULFONATE
 177 SODIUM HEXADECANE 2-SULFONATE
 246 HEPTADECANE 1-SULFONIC ACID
 231 SODIUM HEPTADECANE 1-SULFONATE
 232 OCTADECANE 1-SULFONIC ACID
 349 SODIUM OCTADECANE 1-SULFONATE
 419 SODIUM ALPHA-HEPTYL UNDECYL SULFONATE
 178 SODIUM OCTADECANE 2-SULFONATE

HYDROXY ALKYL SULFONATE

247 DODECANE 1-HYDROXY 2-SULFONIC ACID
 238 SODIUM DODECANE 1-HYDROXY 2-SULFONATE
 248 TETRADECANE 1-HYDROXY 2-SULFONIC ACID
 239 SODIUM TETRADECANE 1-HYDROXY 2-SULFONATE
 249 HEXADECANE 1-HYDROXY 2-SULFONIC ACID
 240 SODIUM HEXADECANE 1-HYDROXY 2-SULFONATE
 250 OCTADECANE 1-HYDROXY 2-SULFONIC ACID
 241 SODIUM OCTADECANE 1-HYDROXY 2-SULFONATE

SULFOSUCCINATE DIESTER

257 SODIUM DI-N-BUTYL SULFOSUCCINATE
 261 SODIUM DI-ISOBUTYL SULFOSUCCINATE
 258 SODIUM DI-N-AMYL SULFOSUCCINATE
 259 SODIUM DI-N-HEXYL SULFOSUCCINATE
 352 SODIUM DI-1-METHYLISOAMYL SULFOSUCCINATE
 260 SODIUM DI-N-OCTYL SULFOSUCCINATE
 262 SODIUM DI-2-ETHYL-HEXYL SULFOSUCCINATE
 286 AMMONIUM DI-2-ETHYL-HEXYL SULFOSUCCINATE

PARA ALKARYL SULFONATE

445 SODIUM PARA-BIS-/N-BUTYL/ BENZENE SULFONATE
 446 SODIUM PARA-BIS-/N-HEXYL/ BENZENE SULFONATE
 49 SODIUM P OCTYL BENZENE SULFONATE
 447 SODIUM PARA-BIS-/N-OCTYL/ BENZENE SULFONATE
 493 SODIUM P-NONYL BENZENE SULFONATE
 50 SODIUM P DECYL BENZENE SULFONATE
 45 SODIUM P 1 METHYL DECYL BENZENE SULFONATE
 51 SODIUM P DODECYL BENZENE SULFONATE
 46 SODIUM P 1 METHYL DODECYL BENZENE SULFONATE

PART 2. Surfactants grouped by charge and by head group and arranged by number of carbon atoms in longest hydrophobic tail - Continued

47	SODIUM P 1 METHYL TETRADECYL BENZENE SULFONATE	113	SODIUM DODECYL TRI-OXYETHYLENE SULFATE
48	SODIUM P 1 METHYL HEXADECYL BENZENE SULFONATE	546	SODIUM TETRADECYL TRI-OXYETHYLENE SULFATE
ALKARYL SULFONATE (UNSPECIFIED)		54	SODIUM HEXADECYL TRI OXYETHYLENE SULFATE
682	SODIUM DIBUTYL NAPHTHALENE SULFONATE /NEKAL/	58	SODIUM OCTADECYL TRI OXYETHYLENE SULFATE
681	SODIUM DIBUTYL BENZENE SULFONATE	549	SODIUM OLEYL TRI-OXYETHYLENE SULFATE
501	SODIUM HEXYL BENZENE SULFONATE	543	SODIUM DODECYL TETRA-OXYETHYLENE SULFATE
502	SODIUM HEPTYL BENZENE SULFONATE	55	SODIUM HEXADECYL TETRA OXYETHYLENE SULFATE
		59	SODIUM OCTADECYL TETRA OXYETHYLENE SULFATE
		114	SODIUM DODECYL /OXYETHYLENE/17.5 SULFATE
C-8		OTHER	
503	SODIUM OCTYL BENZENE SULFONATE	136	SODIUM ALPHA DIMETHYL AMINO CAPRATE
510	SODIUM 2-ETHYL-HEXYL BENZENE SULFONATE	704	POTASSIUM 4-HEXYL RESORCINOLATE
676	SODIUM 1,1,3,3-TETRAMETHYL BUTYL BENZENE SULFONATE	632	POTASSIUM N-DODECYL BETA-ALANINATE
677	SODIUM DI-/1,1,3,3-TETRAMETHYL BUTYL/BENZENESULFONATE	2B. CATIONICS BY HEAD GROUP	
172	SODIUM 2-N-OCTYL BENZENE SULFONATE	AMINE	
C-9		708	HEXYLAMINE
504	SODIUM NONYL BENZENE SULFONATE	706	PERFLUORO PROPYLAMINE
138	SODIUM NONYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN		
272	TRI-ISOPROPYL BENZENE SULFONIC ACID		
271	SODIUM TRI-ISO-PROPYL BENZENE SULFONATE		
C-10		R-H3	
505	SODIUM DECYL BENZENE SULFONATE	707	PERFLUORO PROPYLAMINE HYDROCHLORIDE
173	SODIUM 2-N-DECYL BENZENE SULFONATE	709	HEXYLAMINE HYDROCHLORIDE
511	SODIUM 2-PROPYL-HEPTYL BENZENE SULFONATE	390	HEXYLAMMONIUM DODECYL SULFATE
678	SODIUM 1,1-DIMETHYLNONYL BENZENE SULFONATE	392	OCTYLAMMONIUM CHLORIDE
679	SODIUM 3-BUTYL HEPTYL BENZENE SULFONATE	391	OCTYLAMMONIUM DODECYL SULFATE
140	SODIUM DECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN	37	DECYLAMMONIUM CHLORIDE
561	SANTOMERSE D /SODIUM DECYLBENZENE SULFONATE/	411	DECYLAMMONIUM ACETATE
		38	DODECYL AMMONIUM CHLORIDE
		628	DODECYLAMMONIUM BROMIDE
		482	DODECYL AMMONIUM NITRATE
		412	DODECYLAMMONIUM ACETATE
		39	TETRADECYL AMMONIUM CHLORIDE
		413	TETRADECYLAMMONIUM ACETATE
		186	HEXADECYL AMMONIUM CHLORIDE
		414	HEXADECYLAMMONIUM ACETATE
		187	OCTADECYL AMMONIUM CHLORIDE
		415	OCTADECYLAMMONIUM ACETATE
		RR-H2	
		449	DODECYLMETHYL AMMONIUM CHLORIDE
		RRR-H	
		450	DODECYLDIMETHYL AMMONIUM CHLORIDE
		R-(CH3)3	
		644	HEXYL TRIMETHYLAMMONIUM HEXANE SULFONATE
		640	HEXYL TRIMETHYLAMMONIUM HEXANE SULFATE
		641	HEXYL TRIMETHYLAMMONIUM OCTANE SULFATE
		93	OCTYL TRIMETHYL AMMONIUM BROMIDE
		C-8	
		347	OCTYL TRIMETHYLAMMONIUM OCTYL SULFATE
		287	OCTYL TRIMETHYLAMMONIUM OCTANE SULFONATE
		642	OCTYL TRIMETHYLAMMONIUM DECANE SULFATE
		353	OCTYL TRIMETHYLAMMONIUM DECANE SULFONATE
		385	OCTYL TRIMETHYLAMMONIUM DODECYL SULFATE
		C-9	
		94	NONYL TRIMETHYL AMMONIUM BROMIDE
		C-10	
		203	DECYL TRIMETHYL AMMONIUM CHLORIDE
		95	DECYL TRIMETHYL AMMONIUM BROMIDE
		306	DECYL TRIMETHYLAMMONIUM SULFATE
		346	DECYL TRIMETHYLAMMONIUM DECYL SULFATE
		280	DECYL TRIMETHYL AMMONIUM DODECYL SULFATE
		288	DECYL TRIMETHYLAMMONIUM DECANESULFONATE
		C-11	
		96	UNDECYL TRIMETHYL AMMONIUM BROMIDE
		C-12	
		41	DODECYL TRIMETHYL AMMONIUM CHLORIDE
		126	DODECYL TRIMETHYLAMMONIUM IODIDE
		97	DODECYL TRIMETHYL AMMONIUM BROMIDE
		130	DODECYL TRIMETHYL AMMONIUM FLUORIDE
		131	DODECYL TRIMETHYLAMMONIUM NITRATE
		127	DODECYL TRIMETHYL AMMONIUM IODATE
		129	DODECYL TRIMETHYL AMMONIUM BROMATE
146	OXYPROPYL SULFATE		
597	SODIUM DODECYL MONO-OXYPROPYL SULFATE		
598	SODIUM TETRADECYL MONO-OXYPROPYL SULFATE		
600	SODIUM HEXADECYL MONO-OXYPROPYL SULFATE		
601	SODIUM OCTADECYL MONO-OXYPROPYL SULFATE		
599	SODIUM TETRADECYL DI-OXYPROPYL SULFATE		
147	OXYETHYLENE SULFATE		
541	SODIUM DODECYL MONO-OXYETHYLENE SULFATE		
544	SODIUM TETRADECYL MONO-OXYETHYLENE SULFATE		
52	SODIUM HEXADECYL MONO OXYETHYLENE SULFATE		
56	SODIUM OCTADECYL MONO OXYETHYLENE SULFATE		
547	SODIUM OLEYL MONO-OXYETHYLENE SULFATE		
542	SODIUM DODECYL DIOXYETHYLENE SULFATE		
545	SODIUM TETRADECYL DI-OXYETHYLENE SULFATE		
53	SODIUM HEXADECYL DI OXYETHYLENE SULFATE		
57	SODIUM OCTADECYL DI OXYETHYLENE SULFATE		
548	SODIUM OLEYL DI-OXYETHYLENE SULFATE		

PART 2. Surfactants grouped by charge and by head group and arranged by number of carbon atoms in longest hydrophobic tail - Continued

307	DODECYL TRIMETHYLAMMONIUM SULFATE	268	HEXADECYL TRI-/2-HYDROXYETHYL/ AMMONIUM CHLORIDE
128	DODECYL TRIMETHYL AMMONIUM FORMATE	500	DODECYL TRI/2-HYDROXYETHYL/AMMONIUM CHLORIDE
643	DODECYL TRIMETHYLAMMONIUM OCTANE SULFATE		
281	DODECYL TRIMETHYLAMMONIUM DODECYL SULFATE	RRR-0	
384	HEXYL TRIMETHYLAMMONIUM DODECYL SULFATE	293	DODECYL DIMETHYL AMINE OXIDE HYDROBROMIDE
		22	DIMETHYL DODECYL AMINE OXIDE HYDROCHLORIDE
C-13		BETAINE	
402	TRIDECYL TRIMETHYLAMMONIUM CHLORIDE	135	OCTYL C BETAINE HYDROCHLORIDE
C-14		124	DODECYL N BETAINE HYDROCHLORIDE
42	TETRADECYL TRIMETHYL AMMONIUM CHLORIDE	125	TETRADECYL N BETAINE HYDROCHLORIDE
98	TETRADECYL TRIMETHYL AMMONIUM BROMIDE		
308	TETRADECYL TRIMETHYLAMMONIUM SULFATE	AMINO ACID	
C-16		633	N-DODECYL BETA-ALANINE HYDROCHLORIDE
265	HEXADECYL TRIMETHYL AMMONIUM CHLORIDE	137	ALPHA DIMETHYLAMINO CAPRIC ACID HYDROCHLORIDE
99	HEXADECYL TRIMETHYLAMMONIUM BROMIDE	PYRIDINIUM	
309	HEXADECYL TRIMETHYLAMMONIUM SULFATE	100	OCTYL PYRIDINIUM BROMIDE
559	CATOL 605 / (N-(2-KETO-2-(2-LAUROYL OXYETHYLAMINO))ETHYL TRIMETHYLAMMONIUM CHLORIDE/	458	DECYL PYRIDINIUM IODIDE
C-18		101	UNDECYL PYRIDINIUM BROMIDE
270	OCTADECYL TRIMETHYLAMMONIUM CHLORIDE	278	DODECYL PYRIDINIUM CHLORIDE
477	OCTADECYL TRIMETHYLAMMONIUM BROMIDE	290	DODECYL PYRIDINIUM BROMIDE
654	OCTADECYL TRIMETHYLAMMONIUM NITRATE	376	DODECYL PYRIDINIUM IODIDE
658	OCTADECYL TRIMETHYLAMMONIUM BROMATE	102	TETRADECYL PYRIDINIUM BROMIDE
659	OCTADECYL TRIMETHYLAMMONIUM FORMATE	479	TETRADECYL PYRIDINIUM IODIDE
667	OCTADECYL TRIMETHYLAMMONIUM OXALATE	304	CATOL 607 (N-/LAURYL-COLAMINO-FORMYL-METHYL/ - PYRIDINIUM CHLORIDE)
RR-(CH3)2		C-16	
399	DODECYL DIMETHYL ETHYLAMMONIUM CHLORIDE	274	HEXADECYL PYRIDINIUM CHLORIDE
403	DODECYL DIMETHYLPHENYLAMMONIUM CHLORIDE	427	HEXADECYL PYRIDINIUM BROMIDE
478	HEXADECYL DIMETHYLETHYLAMMONIUM BROMIDE	480	HEXADECYL PYRIDINIUM IODIDE
266	HEXADECYL DIMETHYL 2-HYDROXYETHYL AMMONIUM CHLORIDE	660	HEXADECYL PYRIDINIUM IODATE
269	HEXADECYLDIMETHYL 2,3-DIHYDROXYPROPYLAMMONIUM CHLORIDE	693	N-CETYL 2-METHYL PYRIDINIUM CHLORIDE
483	DIOCTYL DIMETHYL AMMONIUM CHLORIDE	696	N-CETYL 2-METHYL PYRIDINIUM IODIDE
345	DIDODECYL DIMETHYLAMMONIUM CHLORIDE	694	N-CETYL 3-METHYL PYRIDINIUM CHLORIDE
		697	N-CETYL-3-METHYL PYRIDINIUM IODIDE
BENZYL		695	N-CETYL 4-METHYL PYRIDINIUM CHLORIDE
354	HEXYL BENZYL DIMETHYLAMMONIUM CHLORIDE	698	N-CETYL-4-METHYL PYRIDINIUM IODIDE
356	DECYL BENZYL DIMETHYLAMMONIUM CHLORIDE	560	EMULSOL 607L (N-(2-KETO-2-(2-LAUROYLOXETHY LAMINO)) ETHYL) PYRIDINIUM CHLORIDE
279	DODECYL BENZYL DIMETHYLAMMONIUM CHLORIDE	655	OCTADECYL PYRIDINIUM CHLORIDE
357	TETRADECYL BENZYL DIMETHYLAMMONIUM CHLORIDE	687	OCTADECYL PYRIDINIUM BROMIDE
275	HEXADECYL DIMETHYLBENZYLAMMONIUM CHLORIDE	481	OCTADECYL PYRIDINIUM IODIDE
358	OCTADECYL BENZYL DIMETHYLAMMONIUM CHLORIDE	656	OCTADECYL PYRIDINIUM NITRATE
406	DODECYL DIMETHYL META-TRIFLUOROMETHYLBENZYL AMMONIUM CHLORIDE CFC36H4CH2/N/CH3/2/C12H25	661	OCTADECYL PYRIDINIUM IODATE
359	OCTYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE	QUINOLINIUM	
360	DECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE	717	DODECYLQUINOLINIUM BROMIDE
361	DODECYL 4-NITROBENZYL DIMETHYL AMMONIUM CHLORIDE	TROPYLIUM	
362	TETRADECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE	528	DODECYL TROPYLIUM PERCHLORATE
363	HEXADECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE	460	DODECYL TROPYLIUM MONOPHOSPHATE
364	OCTADECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE	491	DODECYL TROPYLIUM BISULFATE
365	DODECYL 2-CHLOROBENZYL DIMETHYLAMMONIUM CHLORIDE		
367	DODECYL 4-CHLOROBENZYL DIMETHYLAMMONIUM CHLORIDE	2C. NONIONICS BY HEAD GROUP	
366	DODECYL 2-4-DICHLOROBENZYL DIMETHYLAMMONIUM CHLORIDE	CARBOXYLIC ACID	
369	DODECYL 3-4-DICHLOROBENZYL DIMETHYLAMMONIUM CHLORIDE	43	BUTYRIC ACID
371	DODECYL 3-4-DIMETHOXYBENZYL DIMETHYLAMMONIUM CHLORIDE	700	HEXANOIC ACID
370	DODECYL 3-4-METHYLENEDI-OXYBENZYL DIMETHYLAMMONIUM CHLORIDE	529	OCTANOIC ACID
368	DODECYL 2-HYDROXY-5-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE	530	DECANOIC ACID
451	PARA DI-ISOBUTYLPHENOXYETHOXYETHYL DIMETHYLBENZYL AMMONIUM CHLORIDE/HYAMINE 1622/	531	DODECANOIC ACID
404	DODECYL DIMETHYL 2-PHENYLETHYLAMMONIUM CHLORIDE C6H5CH2CH2/N/CH3/2/C12H25	532	TETRADECANOIC ACID
407	DODECYL DIMETHYL 3-PHENYLPROPYLAMMONIUM CHLORIDE C6H5CH2CH2/N/CH3/2/C12H25	533	HEXADECANOIC ACID
		534	OCTADECANOIC ACID
RRR-CH3		AMINE	
400	DODECYL METHYL DIETHYLAMMONIUM CHLORIDE	706	PERFLURO PROPYLAMINE
405	DODECYL METHYLETHYLBENZYLAMMONIUM CHLORIDE	708	HEXYLAMINE
287	HEXADECYL DI-/2-HYDROXYETHYL/METHYL AMMONIUMCHLORIDE	N-BETAINE	
R-R3		118	OCTYL N BETAINE
662	OCTADECYL TRIETHYLAMMONIUM BROMATE	119	DECYL N BETAINE
401	DODECYL TRIETHYLAMMONIUM CHLORIDE	120	UNDECYL N BETAINE
663	OCTADECYL TRIPROPYLAMMONIUM BROMATE	121	DODECYL N BETAINE
292	HEXADECYL TRIPROPYLAMMONIUM BROMIDE	592	DODECYL N-DIETHYL N-BETAINE
291	TETRADECYL TRIPROPYLAMMONIUM BROMIDE	122	TETRADECYL N BETAINE
664	OCTADECYL TRIBUTYLAMMONIUM BROMATE	123	HEXADECYL N BETAINE
666	HEXADECYL TRIBUTYLAMMONIUM BROMATE	C-BETAINE	
665	OCTADECYL TRIAMYLAMMONIUM BROMATE	132	OCTYL C BETAINE

PART 2. Surfactants grouped by charge and by head group and arranged by number of carbon atoms in longest hydrophobic tail—Continued

135	DECYL C BETAINE	582	METHYL /OXYETHYLENE/ 16.0 DECANOATE NATURAL DISTRIBUTION OF HEAD GROUPS
134	DODECYL C BETAINE		
AMINE OXIDE		METHYL-OXYETHYLENE ETHER	
714	HEXYL DIMETHYL AMINE OXIDE	201	DECYL /OXYETHYLENE/8 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS
715	HEPTYL DIMETHYL AMINE OXIDE	202	DECYL /OXYETHYLENE/11 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS
251	OCTYL DIMETHYL AMINE OXIDE	204	DECYL /OXYETHYLENE/12 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS
254	NONYL DIMETHYL AMINE OXIDE	205	DODECYL /OXYETHYLENE/12 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS
252	DECYL DIMETHYL AMINE OXIDE		
713	UNDECYL DIMETHYL AMINE OXIDE		
21	DIMETHYL DODECYL AMINE OXIDE		
253	TETRADECYL DIMETHYL AMINE OXIDE		
348	NN-DIMETHYL 1-1-OIHROPENTADECAFLUORO OCTYL AMINE N-OXIDE /C7F15CH2N/CH3/20/		
PHOSPHINE OXIDE		OXYETHYLENE SORBITAN	
710	OCTYL DIMETHYL PHOSPHINE OXIDE	440	/OXYETHYLENE/4 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
711	DECYL DIMETHYL PHOSPHINE OXIDE	441	/OXYETHYLENE/8 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
712	DODECYL DIMETHYL PHOSPHINE OXIDE	442	/OXYETHYLENE/10 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
-ONIO -ATE		443	/OXYETHYLENE/20 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
590	DODECYL DIMETHYLAMMONIOPROPANE CARBOXYLATE	444	/OXYETHYLENE/25 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
587	DECYL DIMETHYLAMMONIOPROPANE SULFONATE		
588	DODECYL DIMETHYLAMMONIOPROPANE SULFONATE		
594	DODECYL DIPROPYL AMMONIOPROPANE SULFONATE		
589	HEXADECYLDIMETHYLAMMONIOPROPANE SULFONATE		
595	DODECYL DIMETHYL AMMONIOPROPANE SULFATE		
593	DIMETHYL DODECYLAMMONIOPROPANE HYDROXY SULFONATE		
591	DODECYL DIMETHYLPHOSPHONIOPROPANE SULFONATE		
SULFINYL OL		OXYETHYLENE DIOL ESTER	
684	HEXYL SULFINYLETHANOL	276	NONAETHYLENE GLYCOL MONODODECANOATE NATURAL DISTRIBUTION OF HEAD GROUPS
688	OCTYL SULFINYLETHANOL		
692	DECYL SULFINYLETHANOL		
685	HEXYL SULFINYLPROPANOL		
689	OCTYL SULFINYLPROPANOL		
686	HEXYL SULFINYLBUTANOL		
690	OCTYL SULFINYLBUTANOL		
687	HEXYL SULFINYLPENTANOL		
SUGAR ALKYLATE		OXYETHYLENE ALCOHOL	
648	ALPHA-D-GLUCOSYL OCTANE	OE 1	
649	ALPHA-D-GLUCOSYL DODECANE	461	BUTYL/OXYETHYLENE/1 ALCOHOL--BUTYL GLYCOL ETHER HOMOGENEOUS HEAD GROUP
645	PARA/BETA-D-GLUCOSYL/ETHYLBENZENE	423	OCTYL/OXYETHYLENE/1 ALCOHOL--OCTYL GLYCOL ETHER HOMOGENEOUS HEAD GROUP
646	PARA/BETA-D-GLUCOSYL/TROPYL BENZENE	207	P-T-OCTYL BENZENE /OXYETHYLENE/1 ALCOHOL HOMOGENEOUS HEAD GROUP
647	PARA/BETA-D-GLUCOSYL/BUTYLBENZENE	217	P-T-OCTYL BENZENE /OXYETHYLENE/1 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
650	PARA/BETA-D-XYLOSYL/BUTYL BENZENE	OE 2	
SUGAR ESTER		208	P-T-OCTYL BENZENE /OXYETHYLENE/2 ALCOHOL HOMOGENEOUS HEAD GROUP
495	SUCROSE MONOLAURATE	218	P-T-OCTYL BENZENE /OXYETHYLENE/2 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
497	SUCROSE MONOMYRISTATE		
498	SUCROSE MONOPALMITATE		
499	SUCROSE DI-PALMITATE		
496	SUCROSE MONOSTEARATE	OE 3	
POLYOL ETHER		103	HEXYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENEOUS HEAD GROUP
424	OCTYL ALPHA-GLYCERYL ETHER	104	OCTYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENEOUS HEAD GROUP
18	OCTYL BETA D GLUCOSIDE	209	P-T-OCTYL BENZENE /OXYETHYLENE/3 ALCOHOL HOMOGENEOUS HEAD GROUP
19	DECYL BETA D GLUCOSIDE	219	P-T-OCTYL BENZENE /OXYETHYLENE/3 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
20	DODECYL BETA D GLUCOSIDE	107	DECYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENEOUS HEAD GROUP
OTHER		OE 3	
457	1-4-HEXANEDIOL	380	HEXYL/OXYETHYLENE/4 ALCOHOL HOMOGENEOUS HEAD GROUP
703	4-HEXYL RESORCINOL	515	ISO-OCTYL/OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
691	OCTYL METHYL SULFOXIDE	210	P-T-OCTYL BENZENE /OXYETHYLENE/4 ALCOHOL HOMOGENEOUS HEAD GROUP
METHYL-OXYETHYLENE ESTER		220	P-T-OCTYL BENZENE /OXYETHYLENE/4 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
583	METHYL /OXYETHYLENE/ 6.0 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS	516	NONYL/OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
580	METHYL /OXYETHYLENE/ 7.0 DECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS	379	DECYL/OXYETHYLENE/4 ALCOHOL HOMOGENEOUS HEAD GROUP
586	METHYL /OXYETHYLENE/ 7.6 OCTANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS	519	DECYL/OXO-PROCESS/ /OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
584	METHYL /OXYETHYLENE/ 8.4 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS	325	DODECYL/OXYETHYLENE/4 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
581	METHYL /OXYETHYLENE/ 10.3 DECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS	OE 5	
585	METHYL /OXYETHYLENE/ 11.2 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS	381	HEXYL/OXYETHYLENE/5 ALCOHOL HOMOGENEOUS HEAD GROUP
578	METHYL /OXYETHYLENE/ 11.9 DECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS	211	P-T-OCTYL BENZENE /OXYETHYLENE/5 ALCOHOL HOMOGENEOUS HEAD GROUP
579	METHYL /OXYETHYLENE/ 12.5 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS	221	P-T-OCTYL BENZENE /OXYETHYLENE/5 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
		153	NONYL BENZENE /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		378	DECYL/OXYETHYLENE/5 ALCOHOL HOMOGENEOUS HEAD GROUP

PART 2. Surfactants grouped by charge and by head group and arranged by number of carbon atoms in longest hydrophobic tail—Continued

143	DECYL /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	313	TRIDECYL/OXYETHYLENE/9.5 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
377	DODECYL/OXYETHYLENE/ 5 ALCOHOL HOMOGENEOUS HEAD GROUP	331	HEXADECYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP
158	DODECYL BENZENE /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION		OE 10
312	TRIDECYL/OXYETHYLENE/5 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION	675	OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
148	TRIDECYL /OXYETHYLENE/ 5.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	216	P-T-OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL HOMOGENOUS HEAD GROUP
	OE 6	317	T-OCTYL BENZENE/OXYETHYLENE/10 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
393	BUTYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP	226	P-T-OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
394	1-METHYL PROPYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP	320	NONYL BENZENE/OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
674	DIISOBUTYL BENZENE/OXYETHYLENE/6 ALCOHOL (DBBRANCHED CHAIN, NATURAL OE DISTRIBUTION	167	NONYL BENZENE /OXYETHYLENE/ 10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
294	HEXYL/OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP	337	NONYL BENZENE/OXYETHYLENE/10.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
395	2-ETHYL BUTYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP	144	DECYL /OXYETHYLENE/ 10.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
105	OCTYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP	396	2-PROPYL PENTYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP
212	P-T-OCTYL BENZENE /OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP	222	P-T-OCTYL BENZENE /OXYETHYLENE/6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
108	DECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP	149	TRIDECYL/OXYETHYLENE/ 10.1 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
397	2-BUTYL HEXYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP	432	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
110	DODECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP	435	OCTADECYL/OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
468	DODECYL/OXYETHYLENE/6.2 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		OE 11
518	TRIMETHYLNONYL/OXYETHYLENE/6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	463	NONYL BENZENE/OXYETHYLENE/11 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
289	TETRADECYL/OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP	523	DECYL BENZENE PARA/OXYETHYLENE/11.0 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
282	HEXADECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP	522	DECYL BENZENE ORTHO/OXYETHYLENE/11.2 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
	OE 7		OE 12
213	P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL HOMOGENOUS HEAD GROUP	490	DODECYL/OXYETHYLENE/12 ALCOHOL HOMOGENEOUS HEAD GROUP
223	P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	164	DODECYL /OXYETHYLENE/ 12 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
488	DODECYL/OXYETHYLENE/7 ALCOHOL HOMOGENEOUS HEAD GROUP	467	TRIDECYL/SECONDARY/ /OXYETHYLENE/12 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
115	DODECYL /OXYETHYLENE/7 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS	332	HEXADECYL/OXYETHYLENE/12 ALCOHOL HOMOGENEOUS HEAD GROUP
469	DODECYL/OXYETHYLENE/7.6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	437	OLEYL/CIS-9-OCTADECENOYL/ /OXYETHYLENE/12 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
330	HEXADECYL/OXYETHYLENE/7 ALCOHOL HOMOGENEOUS HEAD GROUP		OE 14
	OE 8	145	DECYL /OXYETHYLENE/ 14.9 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
335	OCTYL BENZENE/OXYETHYLENE/8.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	326	DODECYL/OXYETHYLENE/14 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
214	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL HOMOGENOUS HEAD GROUP	314	TRIDECYL/OXYETHYLENE/14 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
224	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	524	HEXADECYL/OXYETHYLENE/14 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
520	UNDECYL/OXYETHYLENE/8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	328	OCTADECYL/OXYETHYLENE/14 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
163	DODECYL /OXYETHYLENE/ 8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		OE 15
431	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/8.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	321	NONYL BENZENE/OXYETHYLENE/15 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
	OE 9	464	NONYL BENZENE/OXYETHYLENE/15 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
106	OCTYL /OXYETHYLENE/ 9 ALCOHOL HOMOGENOUS HEAD GROUP	168	NONYL BENZENE /OXYETHYLENE/ 15 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
215	P-T-OCTYL BENZENE /OXYETHYLENE/9 ALCOHOL HOMOGENOUS HEAD GROUP	155	NONYL BENZENE /OXYETHYLENE/ 15.4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
225	P-T-OCTYL BENZENE /OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	471	DODECYL/OXYETHYLENE/15.8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
206	TRITON X-100(P-T-OCTYL BENZENE/OXYETHYLENE/9)NATURAL DISTRIBUTION OF HEAD GROUPS	160	DODECYL BENZENE /OXYETHYLENE/ 15.1 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
336	NONYL BENZENE/OXYETHYLENE/9.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	150	TRIDECYL /OXYETHYLENE/ 15.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
154	NONYL BENZENE /OXYETHYLENE/ 9.8 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION		
109	DECYL /OXYETHYLENE/ 9 ALCOHOL HOMOGENOUS HEAD GROUP		
398	2-BUTYL HEXYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP		
489	DODECYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP		
465	TRIDECYL/OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
466	TRIDECYL/SECONDARY/ /OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		

PART 2. Surfactants grouped by charge and by head group and arranged by number of carbon atoms in longest hydrophobic tail—Continued

433	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/15 ALCOHOL BRANCHED CHAIN. NATURAL OE DISTRIBUTION	166	DODECYL /OXYETHYLENE/ 23 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
333	HEXADECYL/OXYETHYLENE/15 ALCOHOL HOMOGENEOUS HEAD GROUP		
	OE 16		OE 26-30
227	P-T-OCTYL BENZENE /OXYETHYLENE/16 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	473	DODECYL/OXYETHYLENE/27.1 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
716	DODECYL /OXYETHYLENE/16 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS	170	DODECYL /OXYETHYLENE/ 28 ALCOHOL REDUCED DISTRIBUTION OF HEAD GROUPS
438	OLEYL/CIS-9-OCTADECENOYL/ /OXYETHYLENE/16 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	147	DECYL /OXYETHYLENE/ 29.4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
	OE 18	319	T-OCTYL BENZENE/OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
165	DODECYL /OXYETHYLENE/ 18 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	323	NONYL BENZENE/OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
535	HEXADECYL/OXYETHYLENE/18 ALCOHOL	721	NONYL BENZENE /OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN DIALYSED
	OE 20	169	NONYL BENZENE /OXYETHYLENE/ 30 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
318	T-OCTYL BENZENE/OXYETHYLENE/20 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS	157	NONYL BENZENE /OXYETHYLENE/ 30.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
322	NONYL BENZENE/OXYETHYLENE/20 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION	116	DODECYL /OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS
156	NONYL BENZENE /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	162	DODECYL BENZENE /OXYETHYLENE/ 30.6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
146	DECYL /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	316	TRIDECYL/OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
472	DODECYL/OXYETHYLENE/20.4 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	152	TRIDECYL /OXYETHYLENE/ 30.6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
161	DODECYL BENZENE /OXYETHYLENE/ 20.1 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	117	HEXADECYL /OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS
315	TRIDECYL/OXYETHYLENE/20 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION		OE 31-40
151	TRIDECYL /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	474	DODECYL/OXYETHYLENE/38.6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
436	OCTADECYL/OXYETHYLENE/20 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	228	P-T-OCTYL BENZENE /OXYETHYLENE/40 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
439	OLEYL/CIS-9-OCTADECENOYL/ /OXYETHYLENE/20 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUP		OE 41+
	OE 21-25	324	NONYL BENZENE/OXYETHYLENE/50 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
334	HEXADECYL/OXYETHYLENE/21 ALCOHOL HOMOGENEOUS HEAD GROUP	475	DODECYL/OXYETHYLENE/67.3 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
434	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/22 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	338	NONYL BENZENE/OXYETHYLENE/100 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
327	DODECYL/OXYETHYLENE/23 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS	329	OCTADECYL/OXYETHYLENE/100 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS

Structural Indexes of Compounds with Keys to Compound Numbers—Continued

PART 3. Grouped by structure of hydrophobic part and arranged by number of carbon atoms in longest hydrophobic tail and by charge.

3A. ALKANES

N-ALKANES

C-3

699 SODIUM BUTYRATE
43 BUTYRIC ACID
707 PERFLUORO PROPYLAMINE HYDROCHLORIDE
706 PERFLURO PROPYLAMINE

C-4

484 SODIUM PENTANOATE/VALERATE/
257 SODIUM DI-N-BUTYL SULFOSUCCINATE
461 BUTYL/OXYETHYLENE/1 ALCOHOL--BUTYL GLYCOL ETHER
HOMOGENEOUS HEAD GROUP
393 BUTYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP

C-5

700 HEXANOIC ACID
485 SODIUM HEXANOATE/CAPROATE/
188 POTASSIUM HEXANOATE
258 SODIUM DI-N-AMYL SULFOSUCCINATE
343 SODIUM PENTANE SULFONATE
700 HEXANOIC ACID

C-6

486 SODIUM HEPTANOATE
296 POTASSIUM HEPTANOATE
344 SODIUM HEXANE SULFONATE
339 MAGNESIUM HEXANE SULFONATE
259 SODIUM DI-N-HEXYL SULFOSUCCINATE
704 POTASSIUM 4-HEXYL RESORCINOLATE
708 HEXYLAMINE
709 HEXYLAMINE HYDROCHLORIDE
640 HEXYL TRIMETHYLAMMONIUM HEXANE SULFATE
644 HEXYL TRIMETHYLAMMONIUM HEXANE SULFONATE
641 HEXYL TRIMETHYLAMMONIUM OCTANE SULFATE
708 HEXYLAMINE
390 HEXYLAMMONIUM DODECYL SULFATE
714 HEXYL DIMETHYL AMINE OXIDE
684 HEXYL SULFINYLETHANOL
685 HEXYL SULFINYLPROPANOL
686 HEXYL SULFINYLBUTANOL
687 HEXYL SULFINYLPENTANOL
457 1-4-HEXANEDIOL
103 HEXYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENEOUS HEAD GROUP
380 HEXYL/OXYETHYLENE/4 ALCOHOL HOMOGENEOUS HEAD GROUP
381 HEXYL/OXYETHYLENE/5 ALCOHOL HOMOGENEOUS HEAD GROUP
294 HEXYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP
703 4-HEXYL RESORCINOL

C-7

529 OCTANOIC ACID
476 SODIUM OCTANOATE
44 POTASSIUM OCTANOATE
284 HEXANOLAMINE-CH₃CH₂/OH/CH₂C/CH₃/2NH₂-OCTANOATE
303 DI-ISOPROPYLAMONIUM CAPRYLATE
529 OCTANOIC ACID
715 HEPTYL DIMETHYL AMINE OXIDE
586 METHYL /OXYETHYLENE/ 7.6 OCTANOATE REDUCED
POLYDISPERSITY OF HEAD GROUPS

C-8

487 SODIUM NONANOATE
350 POTASSIUM NONANOATE
420 POTASSIUM 1-1-2-OCTANE TRICARBOXYLATE
6 SODIUM ALPHA SULFOPELARGONIC ACID
25 SODIUM ETHYL ALPHA SULFOPELARGONATE
26 SODIUM AMYL ALPHA SULFOPELARGONATE
27 SODIUM HEXYL ALPHA SULFOPELARGONATE
28 SODIUM HEPTYL ALPHA SULFOPELARGONATE
7 SODIUM OCTYL ALPHA SULFOPELARGONATE
31 SODIUM 2 OCTYL ALPHA SULFOPELARGONATE
32 SODIUM 2 ETHYLHEXYL ALPHA SULFOPELARGONATE

35 SODIUM H/CF₂CF₂/3CH₂ ALPHA SULFOPELARGONATE
611 ALPHAPHOSPHONO PELARGONIC ACID
605 SODIUM AMYL ALPHAPHOSPHONO PELARGONATE
2 SODIUM OCTYL 1 SULFATE
66 SODIUM OCTYL 2 SULFATE
347 OCTYL TRIMETHYLAMMONIUM OCTYL SULFATE
643 DODECYL TRIMETHYLAMMONIUM OCTANE SULFATE
181 SODIUM OCTYL 1-SULFONATE
340 MAGNESIUM OCTANE SULFONATE
287 OCTYL TRIMETHYLAMMONIUM OCTANE SULFONATE
260 SODIUM DI-N-OCTYL SULFOSUCCINATE
392 OCTYLAMMONIUM CHLORIDE
391 OCTYLAMMONIUM DODECYL SULFATE
93 OCTYL TRIMETHYL AMMONIUM BROMIDE
347 OCTYL TRIMETHYLAMMONIUM OCTYL SULFATE
642 OCTYL TRIMETHYLAMMONIUM DECANE SULFATE
385 OCTYL TRIMETHYLAMMONIUM DODECYL SULFATE
287 OCTYL TRIMETHYLAMMONIUM OCTANE SULFONATE
353 OCTYL TRIMETHYLAMMONIUM DECANE SULFONATE
483 DIOCTYL DIMETHYL AMMONIUM CHLORIDE
135 OCTYL C BETAINE HYDROCHLORIDE
132 OCTYL C BETAINE
118 OCTYL N BETAINE
251 OCTYL DIMETHYL AMINE OXIDE
710 OCTYL DIMETHYL PHOSPHINE OXIDE
688 OCTYL SULFINYLETHANOL
689 OCTYL SULFINYLPROPANOL
690 OCTYL SULFINYLBUTANOL
648 ALPHA D-GLUCOSYL OCTANE
424 OCTYL ALPHA-GLYCERYL ETHER
18 OCTYL BETA D GLUCOSIDE
691 OCTYL METHYL SULFOXIDE
423 OCTYL/OXYETHYLENE/1 ALCOHOL--OCTYL GLYCOL ETHER
HOMOGENEOUS HEAD GROUP
104 OCTYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENEOUS HEAD GROUP
105 OCTYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENEOUS HEAD GROUP
106 OCTYL /OXYETHYLENE/ 9 ALCOHOL HOMOGENEOUS HEAD GROUP

C-9

530 DECANOIC ACID
299 SODIUM DECANOATE
90 POTASSIUM DECANOATE
668 DIPOTASSIUM OCTYL MALONATE
29 SODIUM NONYL ALPHA SULFOPELARGONATE
606 SODIUM AMYL ALPHAPHOSPHONO CAPRATE
612 ALPHAPHOSPHONO DECANOIC ACID
616 MONOSODIUM ALPHAPHOSPHONO DECANOATE
136 SODIUM ALPHA DIMETHYL AMINO CAPRATE
295 SODIUM NONYL 1-SULFATE
536 NONYL SULFONIC ACID
94 NONYL TRIMETHYL AMMONIUM BROMIDE
137 ALPHA DIMETHYLAMINO CAPRIC ACID HYDROCHLORIDE
530 DECANOIC ACID
254 NONYL DIMETHYL AMINE OXIDE
580 METHYL /OXYETHYLENE/ 7.0 DECANOATE REDUCED
POLYDISPERSITY OF HEAD GROUPS
581 METHYL /OXYETHYLENE/ 10.3 DECANOATE REDUCED
POLYDISPERSITY OF HEAD GROUPS
578 METHYL /OXYETHYLENE/ 11.9 DECANOATE REDUCED
POLYDISPERSITY OF HEAD GROUPS
582 METHYL /OXYETHYLENE/ 16.0 DECANOATE NATURAL
DISTRIBUTION OF HEAD GROUPS

C-10

297 POTASSIUM UNDECANOATE
425 POTASSIUM 1-1-2-DECANE TRICARBOXYLATE
30 SODIUM DECYL ALPHA SULFOPELARGONATE
33 SODIUM /OXO/ DECYL ALPHA SULFOPELARGONATE
3 SODIUM DECYL 1 SULFATE
15 SODIUM DECYL 2 SULFATE
346 DECYL TRIMETHYLAMMONIUM DECYL SULFATE
642 OCTYL TRIMETHYLAMMONIUM DECANE SULFATE
182 SODIUM DECYL 1-SULFONATE
341 MAGNESIUM DECANE SULFONATE
353 OCTYL TRIMETHYLAMMONIUM DECANE SULFONATE

PART 3. Grouped by structure of hydrophobic part and arranged by number of carbon atoms in longest hydrophobic tail and by charge—Continued

288	DECYL TRIMETHYLAMMONIUM DECANESULFONATE	34	SODIUM DODECYL ALPHA SULFOPELARGONATE
37	DECYLAMMONIUM CHLORIDE	632	POTASSIUM N-DODECYL BETA-ALANINATE
411	DECYLAMMONIUM ACETATE	705	DODECYL SULFURIC ACID
203	DECYL TRIMETHYL AMMONIUM CHLORIDE	1	SODIUM DODECYL 1 SULFATE
95	DECYL TRIMETHYL AMMONIUM BROMIDE	67	SODIUM DODECYL 2 SULFATE
306	DECYL TRIMETHYLAMMONIUM SULFATE	634	POTASSIUM DODECYL SULFATE
346	DECYL TRIMETHYLAMMONIUM DECYL SULFATE	111	LITHIUM DODECYL 1 SULFATE
288	DECYL TRIMETHYLAMMONIUM DECANESULFONATE	23	SILVER DODECYL 1 SULFATE
280	DECYL TRIMETHYL AMMONIUM DODECYL SULFATE	568	MAGNESIUM DODECYL SULFATE
133	DECYL C BETAINE	24	CALCIUM DODECYL 1 SULFATE
119	DECYL N BETAINE	569	STRONTIUM DODECYL SULFATE
252	DECYL DIMETHYL AMINE OXIDE	571	MANGANESE DODECYL SULFATE
711	DECYL DIMETHYL PHOSPHINE OXIDE	572	COBALTOUS DODECYL SULFATE
587	DECYL DIMETHYLAMMONIOPROPANE SULFONATE	575	NICKEL DODECYL SULFATE
692	DECYL SULFINYLETHANOL	573	CUPRIC DODECYL SULFATE
19	DECYL BETA D GLUCOSIDE	570	LEAD DODECYL SULFATE
201	DECYL /OXYETHYLENE/8 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS	574	ZINC DODECYL SULFATE
202	DECYL /OXYETHYLENE/11 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS	386	AMMONIUM DODECYL SULFATE
204	DECYL /OXYETHYLENE/12 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS	387	METHYLAMMONIUM DODECYL SULFATE
107	DECYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENOUS HEAD GROUP	388	ETHYLAMMONIUM DODECYL SULFATE
379	DECYL/OXYETHYLENE/4 ALCOHOL HOMOGENOUS HEAD GROUP	389	BUTYLAMMONIUM DODECYL SULFATE
378	DECYL/OXYETHYLENE/5 ALCOHOL HOMOGENOUS HEAD GROUP	409	TRIETHANOLAMMONIUM DODECYL SULFATE
108	DECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP	112	TETRAMETHYL AMMONIUM DODECYL 1 SULFATE
109	DECYL /OXYETHYLENE/ 9 ALCOHOL HOMOGENOUS HEAD GROUP	382	ETHYL TRIMETHYLAMMONIUM DODECYL SULFATE
		383	BUTYL TRIMETHYLAMMONIUM DODECYL SULFATE
		718	TETRAETHYLAMMONIUM DODECYL SULFATE
		719	TETRAETHYLAMMONIUM DODECYL SULFATE
		720	1-6-DITRIMETHYLAMMONIUM-HEXANE/DODECYL SULFATE/2
		410	MORPHOLINIUM DODECYL SULFATE
		391	OCTYLAMMONIUM DODECYL SULFATE
		385	OCTYL TRIMETHYLAMMONIUM DODECYL SULFATE
		280	DECYL TRIMETHYL AMMONIUM DODECYL SULFATE
		281	DODECYL TRIMETHYLAMMONIUM DODECYL SULFATE
		636	SODIUM DODECYL THIOSULFATE
		462	SODIUM MONOLAURIN SULFATE
		541	SODIUM DODECYL MONO-OXYETHYLENE SULFATE
		542	SODIUM DODECYL DIOXYETHYLENE SULFATE
		113	SODIUM DODECYL TRI-OXYETHYLENE SULFATE
		543	SODIUM DODECYL TETRA-OXYETHYLENE SULFATE
		114	SODIUM DODECYL /OXYETHYLENE/17.5 SULFATE
		597	SODIUM DODECYL MONO-OXYPROPYL SULFATE
		200	DODECYL SULFONIC ACID
		179	SODIUM DODECANE 1-SULFONATE
		175	SODIUM DODECANE 2-SULFONATE
		40	POTASSIUM DODECYL 1 SULFONATE
		635	LITHIUM DODECYL SULFONATE
		342	MAGNESIUM DODECANE SULFONATE
			CATIONIC
		38	DODECYL AMMONIUM CHLORIDE
		628	DODECYLAMMONIUM BROMIDE
		482	DODECYL AMMONIUM NITRATE
		412	DODECYLAMMONIUM ACETATE
		449	DODECYLMETHYL AMMONIUM CHLORIDE
		450	DODECYLDIMETHYL AMMONIUM CHLORIDE
		41	DODECYL TRIMETHYL AMMONIUM CHLORIDE
		307	DODECYL TRIMETHYLAMMONIUM SULFATE
		97	DODECYL TRIMETHYL AMMONIUM BROMIDE
		126	DODECYL TRIMETHYLAMMONIUM IODIDE
		130	DODECYL TRIMETHYL AMMONIUM FLUORIDE
		131	DODECYL TRIMETHYLAMMONIUM NITRATE
		129	DODECYL TRIMETHYL AMMONIUM BROMATE
		127	DODECYL TRIMETHYL AMMONIUM IODATE
		128	DODECYL TRIMETHYL AMMONIUM FORMATE
		643	DODECYL TRIMETHYLAMMONIUM OCTANE SULFATE
		281	DODECYL TRIMETHYLAMMONIUM DODECYL SULFATE
		384	HEXYL TRIMETHYLAMMONIUM DODECYL SULFATE
		399	DODECYL DIMETHYL ETHYLAMMONIUM CHLORIDE
		345	DIDODECYL DIMETHYLAMMONIUM CHLORIDE
		400	DODECYL METHYL DIETHYLAMMONIUM CHLORIDE
		401	DODECYL TRIETHYLAMMONIUM CHLORIDE
		500	DODECYL TRI/2-HYDROXYETHYL/AMMONIUM CHLORIDE
		22	DIMETHYL DODECYL AMINE OXIDE HYDROCHLORIDE
		293	DODECYL DIMETHYL AMINE OXIDE HYDROBROMIDE
		124	DODECYL N BETAINE HYDROCHLORIDE
		633	N-DODECYL BETA-ALANINE HYDROCHLORIDE
			NONIONIC
		121	DODECYL N BETAINE
		592	DODECYL N-DIETHYL N-BETAINE
		134	DODECYL C BETAINE
		21	DIMETHYL DODECYL AMINE OXIDE
		712	DODECYL DIMETHYL PHOSPHINE OXIDE
		590	DODECYL DIMETHYLAMMONIOPROPANE CARBOXYLATE
		588	DODECYL DIMETHYLAMMONIOPROPANE SULFONATE
			ANIONIC
		351	POTASSIUM TRIDECANOATE
		421	POTASSIUM 1-1-2-DODECANE TRICARBOXYLATE
			C-11
		531	DODECANOIC ACID
		273	SODIUM DODECANOATE
		91	POTASSIUM DODECANOATE
		627	CESIUM DODECANOATE
		277	BENZYL TRIMETHYL AMMONIUM DODECANOATE
		527	SODIUM UNDECANE-3-CARBOXYLATE
		669	DIPOTASSIUM DECYL MALONATE
		602	ALPHA SULFO LAURIC ACID
		235	SODIUM ALPHA SULFO LAURIC ACID
		603	SODIUM PROPYL ALPHA SULFO LAURATE
		613	ALPHAPHOSPHONO DODECANOIC ACID
		617	MONOSODIUM ALPHAPHOSPHONO DODECANOATE
		620	DISODIUM ALPHAPHOSPHONO DODECANOATE
		607	SODIUM ISOPROPYL ALPHAPHOSPHONO LAURATE
		311	SODIUM UNDECYL 1-SULFATE
		72	SODIUM UNDECYL 3 SULFATE
		80	SODIUM UNDECYL 6 SULFATE
		639	SODIUM UNDECYL THIOSULFATE
		537	UNDECYL SULFONIC ACID
		418	SODIUM UNDECYL SULFONATE
		96	UNDECYL TRIMETHYL AMMONIUM BROMIDE
		531	DODECANOIC ACID
		120	UNDECYL N BETAINE
		713	UNDECYL DIMETHYL AMINE OXIDE
		495	SUCROSE MONOLAURATE
		276	NONAETHYLENE GLYCOL MONODODECANOATE NATURAL DISTRIBUTION OF HEAD GROUPS
		583	METHYL /OXYETHYLENE/ 6.0 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
		584	METHYL /OXYETHYLENE/ 8.4 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
		585	METHYL /OXYETHYLENE/ 11.2 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
		579	METHYL /OXYETHYLENE/ 12.5 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
		440	/OXYETHYLENE/4 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
		441	/OXYETHYLENE/8 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
		442	/OXYETHYLENE/10 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
		443	/OXYETHYLENE/20 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
		444	/OXYETHYLENE/25 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
		520	UNDECYL/OXYETHYLENE/8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
		550	LAURIC ACID DIETHANOLAMINE CONDENSATE
			C-12
			ANIONIC
		351	POTASSIUM TRIDECANOATE
		421	POTASSIUM 1-1-2-DODECANE TRICARBOXYLATE

PART 3. Grouped by structure of hydrophobic part and arranged by number of carbon atoms in longest hydrophobic tail and by charge—Continued

591	DODECYL DIMETHYLPHOSPHONIOPROPANE SULFONATE	73	SODIUM TETRADECYL 3 SULFATE
595	DODECYL DIMETHYL AMMONIOPROPANE SULFATE	17	SODIUM TETRADECYL 4 SULFATE
594	DODECYL DIPROPYL AMMONIOPROPANE SULFONATE	77	SODIUM TETRADECYL 5 SULFATE
593	DIMETHYL DODECYLAMMONIOPROPANE HYDROXY SULFONATE	525	SODIUM TETRADECYL 6-SULFATE
20	DODECYL BETA D GLUCOSIDE	84	SODIUM TETRADECYL 7 SULFATE
649	ALPHA-D-GLUCOSYL DODECANE	637	LITHIUM TETRADECYL SULFATE
205	DODECYL /OXYETHYLENE/12 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS	576	CUPRIC TETRADECYL SULFATE
325	DODECYL/OXYETHYLENE/4 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS	544	SODIUM TETRADECYL MONO-OXYETHYLENE SULFATE
377	DODECYL/OXYETHYLENE/ 5 ALCOHOL HOMOGENEOUS HEAD GROUP	545	SODIUM TETRADECYL DI-OXYETHYLENE SULFATE
110	DODECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP	546	SODIUM TETRADECYL TRI-OXYETHYLENE SULFATE
468	DODECYL/OXYETHYLENE/6.2 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	598	SODIUM TETRADECYL MONO-OXYPROPYL SULFATE
115	DODECYL /OXYETHYLENE/7 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS	599	SODIUM TETRADECYL DI-OXYPROPYL SULFATE
488	DODECYL/OXYETHYLENE/7 ALCOHOL HOMOGENEOUS HEAD GROUP	243	TETRADECANE 1-SULFONIC ACID
469	DODECYL/OXYETHYLENE/7.6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	183	SODIUM TETRADECYL 1-SULFONATE
163	DODECYL /OXYETHYLENE/ 8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	176	SODIUM TETRADECANE 2-SULFONATE
489	DODECYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP	39	TETRADECYL AMMONIUM CHLORIDE
310	DODECYL/OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	413	TETRADECYLAMMONIUM ACETATE
470	DODECYL/OXYETHYLENE/10.6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	42	TETRADECYL TRIMETHYL AMMONIUM CHLORIDE
490	DODECYL/OXYETHYLENE/12 ALCOHOL HOMOGENEOUS HEAD GROUP	98	TETRADECYL TRIMETHYL AMMONIUM BROMIDE
164	DODECYL /OXYETHYLENE/ 12 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	308	TETRADECYL TRIMETHYLAMMONIUM SULFATE
326	DODECYL/OXYETHYLENE/14 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS	291	TETRADECYL TRIPROPYLAMMONIUM BROMIDE
471	DODECYL/OXYETHYLENE/15.8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	125	TETRADECYL N BETAINE HYDROCHLORIDE
716	DODECYL /OXYETHYLENE/16 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS	122	TETRADECYL N BETAINE
165	DODECYL /OXYETHYLENE/ 18 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	253	TETRADECYL DIMETHYL AMINE OXIDE
472	DODECYL/OXYETHYLENE/20.4 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	289	TETRADECYL/OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP
327	DODECYL/OXYETHYLENE/23 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS		
166	DODECYL /OXYETHYLENE/ 23 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
473	DODECYL/OXYETHYLENE/27.1 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
170	DODECYL /OXYETHYLENE/ 28 ALCOHOL REDUCED DISTRIBUTION OF HEAD GROUPS		
116	DODECYL /OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS		
474	DODECYL/OXYETHYLENE/38.6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
475	DODECYL/OXYETHYLENE/67.3 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
		C-15	
		533	HEXADECANOIC ACID
		300	SODIUM HEXADECANOATE
		185	POTASSIUM HEXADECANOATE
		671	DIPOTASSIUM TETRADECYL MALONATE
		190	ALPHA SULFOPALMITIC ACID
		237	SODIUM ALPHA SULFO PALMITIC ACID
		36	SODIUM METHYL ALPHA SULFOPALMITATE
		192	SODIUM ETHYL ALPHA SULFOPALMITATE
		193	SODIUM PROPYL ALPHA SULFOPALMITATE
		234	DISODIUM ALPHA SULFO PALMITATE
		197	DISODIUM 2 SULFOETHYL ALPHA SULFOPALMITATE
		615	ALPHAPHOSPHONO HEXADECANOIC ACID
		619	MONOSODIUM ALPHAPHOSPHONO HEXADECANOATE
		609	SODIUM ISOPROPYL ALPHAPHOSPHONO PALMITATE
		622	DISODIUM ALPHAPHOSPHONO HEXADECANOATE
		625	TRISODIUM ALPHAPHOSPHONO HEXADECANOATE
		69	SODIUM PENTADECYL 2 SULFATE
		74	SODIUM PENTADECYL 3 SULFATE
		78	SODIUM PENTADECYL 5 SULFATE
		85	SODIUM PENTADECYL 8 SULFATE
		244	PENTADECANE 1-SULFONIC ACID
		230	SODIUM PENTADECANE 1-SULFONATE
		533	HEXADECANOIC ACID
		498	SUCROSE MONOPALMITATE
		C-16	
		422	POTASSIUM 1-1-2-HEXADECANE TRICARBOXYLATE
		5	SODIUM HEXADECYL 1 SULFATE
		75	SODIUM HEXADECYL 4 SULFATE
		81	SODIUM HEXADECYL 6 SULFATE
		86	SODIUM HEXADECYL 8 SULFATE
		638	LITHIUM HEXADECYL SULFATE
		577	CUPRIC HEXADECYL SULFATE
		60	TRIETHANOL AMMONIUM HEXADECYL SULFATE
		52	SODIUM HEXADECYL MONO OXYETHYLENE SULFATE
		53	SODIUM HEXADECYL DI OXYETHYLENE SULFATE
		54	SODIUM HEXADECYL TRI OXYETHYLENE SULFATE
		55	SODIUM HEXADECYL TETRA OXYETHYLENE SULFATE
		600	SODIUM HEXADECYL MONO-OXYPROPYL SULFATE
		245	HEXADECANE 1-SULFONIC ACID
		184	SODIUM HEXADECYL 1-SULFONATE
		177	SODIUM HEXADECANE 2-SULFONATE
		408	POTASSIUM HEXADECANE 1-SULFONATE
		186	HEXADECYL AMMONIUM CHLORIDE
		414	HEXADECYLAMMONIUM ACETATE
		265	HEXADECYL TRIMETHYL AMMONIUM CHLORIDE
		99	HEXADECYL TRIMETHYLAMMONIUM BROMIDE
		309	HEXADECYL TRIMETHYLAMMONIUM SULFATE
		478	HEXADECYL DIMETHYLETHYLAMMONIUM BROMIDE
		266	HEXADECYL DIMETHYL 2-HYDROXYETHYL AMMONIUM CHLORIDE
		269	HEXADECYLDIMETHYL 2,3-DIHYDROXYPROPYLAMMONIUM CHLORIDE
		267	HEXADECYL DI-/2-HYDROXYETHYL/METHYL AMMONIUM CHLORIDE
		268	HEXADECYL TRI-/2-HYDROXYETHYL/ AMMONIUM CHLORIDE
		292	HEXADECYL TRIPROPYLAMMONIUM BROMIDE
		666	HEXADECYL TRIBUTYLAMMONIUM BROMATE
		123	HEXADECYL N BETAINE
		589	HEXADECYLDIMETHYLAMMONIOPROPANE SULFONATE
		499	SUCROSE DI-PALMITATE
C-13			
532	TETRADECANOIC ACID		
298	SODIUM TETRADECANOATE		
92	POTASSIUM TETRADECANOATE		
670	DIPOTASSIUM DODECYL MALONATE		
189	ALPHA SULFOMYRISTIC ACID		
236	SODIUM ALPHA SULFO MYRISTIC ACID		
604	SODIUM METHYL ALPHA SULFO MYRISTATE		
618	MONOSODIUM ALPHAPHOSPHONO TETRADECANOATE		
608	SODIUM METHYL ALPHAPHOSPHONO MYRISTATE		
255	DISODIUM ALPHA SULFO MYRISTATE		
614	ALPHAPHOSPHONO TETRADECANOIC ACID		
621	DISODIUM ALPHAPHOSPHONO TETRADECANOATE		
624	TRISODIUM ALPHAPHOSPHONO TETRADECANOATE		
68	SODIUM TRIDECYL 2 SULFATE		
83	SODIUM TRIDECYL 7 SULFATE		
242	TRIDECANE 1-SULFONIC ACID		
229	SODIUM TRIDECANE 1-SULFONATE		
402	TRIDECYL TRIMETHYLAMMONIUM CHLORIDE		
532	TETRADECANOIC ACID		
497	SUCROSE MONOMYRISTATE		
465	TRIDECYL/OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
466	TRIDECYL/SECONDARY/ /OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
		C-14	
426	POTASSIUM 1-1-2-TETRADECANE TRICARBOXYLATE		
4	SODIUM TETRADECYL 1 SULFATE		
16	SODIUM TETRADECYL 2 SULFATE		

PART 3. Grouped by structure of hydrophobic part and arranged by number of carbon atoms in longest hydrophobic tail and by charge—Continued

282	HEXADECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENEOUS HEAD GROUP	ISO-ALKANES	261	SODIUM DI-ISOBUTYL SULFOSUCCINATE
330	HEXADECYL/OXYETHYLENE/7 ALCOHOL HOMOGENEOUS HEAD GROUP		394	1-METHYL PROPYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP
331	HEXADECYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP		352	SODIUM DI-1-METHYLISOAMYL SULFOSUCCINATE
332	HEXADECYL/OXYETHYLENE/12 ALCOHOL HOMOGENEOUS HEAD GROUP		395	2-ETHYL BUTYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP
333	HEXADECYL/OXYETHYLENE/15 ALCOHOL HOMOGENEOUS HEAD GROUP		262	SODIUM DI-2-ETHYL-HEXYL SULFOSUCCINATE
535	HEXADECYL/OXYETHYLENE/18 ALCOHOL		286	AMMONIUM DI-2-ETHYL-HEXYL SULFOSUCCINATE
334	HEXADECYL/OXYETHYLENE/21 ALCOHOL HOMOGENEOUS HEAD GROUP		396	2-PROPYL PENTYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP
117	HEXADECYL /OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS		515	ISO-OCTYL/OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
C-17			516	NONYL/OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
534	OCTADECANOIC ACID		397	2-BUTYL HEXYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP
448	SODIUM OCTADECANOATE /STEARATE/		398	2-BUTYL HEXYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP
256	POTASSIUM STEARATE		517	DECYL/OXO-PROCESS/ /OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
672	DIPOTASSIUM HEXADECYL MALONATE		519	DECYL/OXO-PROCESS/ /OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
191	ALPHA SULFOSTEARIC ACID		143	DECYL /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
9	SODIUM ALPHA SULFOSTEARIC ACID		144	DECYL /OXYETHYLENE/ 10.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
194	SODIUM METHYL ALPHA SULFOSTEARATE		145	DECYL /OXYETHYLENE/ 14.9 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
195	SODIUM ETHYL ALPHA SULFOSTEARATE		146	DECYL /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
196	SODIUM PROPYL ALPHA SULFOSTEARATE		147	DECYL /OXYETHYLENE/ 29.4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
199	SODIUM ISOPROPYL ALPHA SULFOSTEARATE		518	TRIMETHYLNONYL/OXYETHYLENE/6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
10	DISODIUM ALPHA SULFOSTEARATE		C-13	
198	DISODIUM 2 SULFOETHYL ALPHA SULFOSTEARATE		312	TRIDECYL/OXYETHYLENE/5 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
553	XYLYL SULFOSTEARIC ACID		148	TRIDECYL /OXYETHYLENE/ 5.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
610	SODIUM METHYL ALPHAPHOSPHONO STEARATE		313	TRIDECYL/OXYETHYLENE/9.5 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
623	DISODIUM ALPHAPHOSPHONO OCTADECANOATE		521	TRIDECYL/OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
626	TRISODIUM ALPHAPHOSPHONO OCTADECANOATE		149	TRIDECYL /OXYETHYLENE/ 10.1 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
70	SODIUM HEPTADECYL 2 SULFATE		314	TRIDECYL/OXYETHYLENE/14 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
87	SODIUM HEPTADECYL 9 SULFATE		150	TRIDECYL /OXYETHYLENE/ 15.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
246	HEPTADECANE 1-SULFONIC ACID		315	TRIDECYL/OXYETHYLENE/20 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
231	SODIUM HEPTADECANE 1-SULFONATE		151	TRIDECYL /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
534	OCTADECANOIC ACID		316	TRIDECYL/OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
496	SUCROSE MONOSTEARATE		152	TRIDECYL /OXYETHYLENE/ 30.6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
C-18			431	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/8.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
673	DIPOTASSIUM OCTADECYL MALONATE		432	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
64	SODIUM OCTADECYL 1 SULFATE		433	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/15 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
71	SODIUM OCTADECYL 2 SULFATE		434	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/22 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
76	SODIUM OCTADECYL 4 SULFATE		526	SODIUM 2-DI-N-HEXYL ETHYL SULFATE
02	SODIUM OCTADECYL 6 SULFATE		524	HEXADECYL/OXYETHYLENE/14 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
65	TRITHANOLAMMONIUM OCTADECYL 1 SULFATE		3B. ALKYL ARYL	
56	SODIUM OCTADECYL MONO OXYETHYLENE SULFATE		ALKYL AND ARYL	
57	SODIUM OCTADECYL DI OXYETHYLENE SULFATE		354	HEXYL BENZYL DIMETHYLAMMONIUM CHLORIDE
58	SODIUM OCTADECYL TRI OXYETHYLENE SULFATE		356	DECYL BENZYL DIMETHYLAMMONIUM CHLORIDE
59	SODIUM OCTADECYL TETRA OXYETHYLENE SULFATE		403	DODECYL DIMETHYLPHENYLAMMONIUM CHLORIDE
601	SODIUM OCTADECYL MONO-OXYPROPYL SULFATE		279	DODECYL BENZYL DIMETHYLAMMONIUM CHLORIDE
232	OCTADECANE 1-SULFONIC ACID		404	DODECYL DIMETHYL 2-PHENYLETHYLAMMONIUM CHLORIDE
349	SODIUM OCTADECANE 1-SULFONATE			C6H5CH2CH2/N/CH3/2/C12H25
178	SODIUM OCTADECANE 2-SULFONATE		407	DODECYL DIMETHYL 3-PHENYLPROPYLAMMONIUM CHLORIDE
419	SODIUM ALPHA-HEPTYL UNDECYL SULFONATE			C6H5CH2CH2/N/CH3/2/C12H25
187	OCTADECYL AMMONIUM CHLORIDE		405	DODECYL METHYLETHYLBENZYLAMMONIUM CHLORIDE
415	OCTADECYLAMMONIUM ACETATE		357	TETRADECYL BENZYL DIMETHYLAMMONIUM CHLORIDE
270	OCTADECYL TRIMETHYLAMMONIUM CHLORIDE			
477	OCTADECYL TRIMETHYLAMMONIUM BROMIDE			
654	OCTADECYL TRIMETHYLAMMONIUM NITRATE			
658	OCTADECYL TRIMETHYLAMMONIUM BROMATE			
659	OCTADECYL TRIMETHYLAMMONIUM FORMATE			
667	OCTADECYL TRIMETHYLAMMONIUM OXALATE			
662	OCTADECYL TRIMETHYLAMMONIUM BROMATE			
663	OCTADECYL TRIPROPYLAMMONIUM BROMATE			
664	OCTADECYL TRIBUTYLAMMONIUM BROMATE			
665	OCTADECYL TRIAMYLAMMONIUM BROMATE			
435	OCTADECYL/OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS			
328	OCTADECYL/OXYETHYLENE/14 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS			
436	OCTADECYL/OXYETHYLENE/20 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS			
329	OCTADECYL/OXYETHYLENE/100 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS			
C-19				
79	SODIUM NONADECYL 5 SULFATE			
88	SODIUM 1 NONYL DECYL SULFATE			
C-20				
683	SODIUM EICOSYLBENZENE SULFONATE			
C-29				
89	SODIUM 1 TETRADECYL PENTADECYL SULFATE			

PART 3. Grouped by structure of hydrophobic part and arranged by number of carbon atoms in longest hydrophobic tail and by charge - Continued

275	HEXADECYL DIMETHYLBENZYLAMMONIUM CHLORIDE	213	P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL HOMOGENOUS HEAD GROUP
358	OCTADECYL BENZYL DIMETHYLAMMONIUM CHLORIDE	223	P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
1-N-ALKYL ARYL		214	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL HOMOGENOUS HEAD GROUP
645	PARA/BETA-D-GLUCOSYL/ETHYLBENZENE	224	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
646	PARA/BETA-D-GLUCOSYL/PROPYL BENZENE	215	P-T-OCTYL BENZENE /OXYETHYLENE/9 ALCOHOL HOMOGENOUS HEAD GROUP
440	SODIUM PARA-BIS-/N-BUTYL/ BENZENE SULFONATE	225	P-T-OCTYL BENZENE /OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
681	SODIUM DIBUTYL BENZENE SULFONATE	206	TRITON X-100(P-T-OCTYL BENZENE/OXYETHYLENE/9NATURAL DISTRIBUTION OF HEAD GROUPS
647	PARA/BETA-D-GLUCOSYL/BUTYLBENZENE	216	P-T-OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL HOMOGENOUS HEAD GROUP
650	PARA/BETA-D-XYLOSYL/BUTYL BENZENE	317	T-OCTYL BENZENE/OXYETHYLENE/10 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
501	SODIUM HEXYL BENZENE SULFONATE	226	P-T-OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
446	SODIUM PARA-BIS-/N-HEXYL/ BENZENE SULFONATE	227	P-T-OCTYL BENZENE /OXYETHYLENE/16 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
502	SODIUM HEPTYL BENZENE SULFONATE	318	T-OCTYL BENZENE/OXYETHYLENE/20 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
49	SODIUM P OCTYL BENZENE SULFONATE	319	T-OCTYL BENZENE/OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
503	SODIUM OCTYL BENZENE SULFONATE	228	P-T-OCTYL BENZENE /OXYETHYLENE/40 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
447	SODIUM PARA-BIS-/N-OCTYL/ BENZENE SULFONATE	272	TRI-ISOPROPYL BENZENE SULFONIC ACID
675	OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	271	SODIUM TRI-ISO-PROPYL BENZENE SULFONATE
493	SODIUM P-NONYL BENZENE SULFONATE	678	SODIUM 1,1-DIMETHYLNONYL BENZENE SULFONATE
504	SODIUM NONYL BENZENE SULFONATE	511	SODIUM 2-PROPYL-HEPTYL BENZENE SULFONATE
463	NONYL BENZENE/OXYETHYLENE/11 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	679	SODIUM 3-BUTYL HEPTYL BENZENE SULFONATE
464	NONYL BENZENE/OXYETHYLENE/15 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	680	SODIUM 2-PROPYL-4-METHYL-OCTYL BENZENE SULFONATE
50	SODIUM P DECYL BENZENE SULFONATE	492	SODIUM TETRAPROPYLENE/1-3-5-7-TETRAMETHYL-OCTYL/BENZENE SULFONATE
505	SODIUM DECYL BENZENE SULFONATE	512	SODIUM 2-BUTYL-OCTYL BENZENE SULFONATE
522	DECYL BENZENE ORTHO/OXYETHYLENE/11.2 ALCOHOLNATURAL DISTRIBUTION OF HEAD GROUPS	513	SODIUM 2-AMYL-NONYL BENZENE SULFONATE
523	DECYL BENZENE PARA/OXYETHYLENE/11.0 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
51	SODIUM P DODECYL BENZENE SULFONATE		
506	SODIUM DODECYL BENZENE SULFONATE		
507	SODIUM TETRADECYL BENZENE SULFONATE		
596	TETRAHYDROANACARDOL AMMONIUM MONOSULFONATE		
508	SODIUM HEXADECYL BENZENE SULFONATE		
552	TOLYL SULFOSTEARIC ACID		
509	SODIUM OCTADECYL BENZENE SULFONATE		
OTHER N-ALKYL ARYL			
172	SODIUM 2-N-OCTYL BENZENE SULFONATE		
173	SODIUM 2-N-DECYL BENZENE SULFONATE		
45	SODIUM P 1 METHYL DECYL BENZENE SULFONATE		
171	SODIUM 2-N-DODECYL BENZENE SULFONATE		
301	SODIUM 3-N-DODECYL BENZENE SULFONATE		
302	SODIUM 4-N-DODECYL BENZENE SULFONATE		
514	SODIUM 6-N-DODECYL BENZENE SULFONATE		
46	SODIUM P 1 METHYL DODECYL BENZENE SULFONATE		
174	SODIUM 2-N-TETRADECYL BENZENE SULFONATE		
47	SODIUM P 1 METHYL TETRADECYL BENZENE SULFONATE		
48	SODIUM P 1 METHYL HEXADECYL BENZENE SULFONATE		
551	PHENYL SULFOSTEARIC ACID		
ISO-ALKYL ARYL - KNOWN BRANCHING			
674	DIISOBUTYL BENZENE/OXYETHYLENE/6 ALCOHOL (DB) BRANCHED CHAIN, NATURAL OE DISTRIBUTION		
510	SODIUM 2-ETHYL-HEXYL BENZENE SULFONATE		
676	SODIUM 1,1,3,3-TETRAMETHYL BUTYL BENZENE SULFONATE		
677	SODIUM DI-/1,1,3,3-TETRAMETHYL BUTYL/BENZENESULFONATE		
P-TERTIARY OCTYL BENZENE			
207	P-T-OCTYL BENZENE /OXYETHYLENE/1 ALCOHOL HOMOGENOUS HEAD GROUP		
217	P-T-OCTYL BENZENE /OXYETHYLENE/1 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
208	P-T-OCTYL BENZENE /OXYETHYLENE/2 ALCOHOL HOMOGENOUS HEAD GROUP		
218	P-T-OCTYL BENZENE /OXYETHYLENE/2 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
209	P-T-OCTYL BENZENE /OXYETHYLENE/3 ALCOHOL HOMOGENOUS HEAD GROUP		
219	P-T-OCTYL BENZENE /OXYETHYLENE/3 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
210	P T OCTYL BENZENE /OXYETHYLENE/4 ALCOHOL HOMOGENOUS HEAD GROUP		
220	P-T-OCTYL BENZENE /OXYETHYLENE/4 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
211	P-T-OCTYL BENZENE /OXYETHYLENE/5 ALCOHOL HOMOGENOUS HEAD GROUP		
221	P-T-OCTYL BENZENE /OXYETHYLENE/5 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
212	P-T-OCTYL BENZENE /OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP		
222	P-T-OCTYL BENZENE /OXYETHYLENE/6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		
		ISO-ALKYL ARYL - BRANCHING UNSPECIFIED	
		335	OCTYL BENZENE/OXYETHYLENE/8.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		138	SODIUM NONYL BENZENE SULFONATE BRANCHED HYDROCARBON
		ISO-NONYL BENZENE	
		153	NONYL BENZENE /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		154	NONYL BENZENE /OXYETHYLENE/ 9.8 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		336	NONYL BENZENE/OXYETHYLENE/9.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		320	NONYL BENZENE/OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
		167	NONYL BENZENE /OXYETHYLENE/ 10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		337	NONYL BENZENE/OXYETHYLENE/10.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		168	NONYL BENZENE /OXYETHYLENE/ 15 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		321	NONYL BENZENE/OXYETHYLENE/15 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
		155	NONYL BENZENE /OXYETHYLENE/ 15.4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		322	NONYL BENZENE/OXYETHYLENE/20 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
		156	NONYL BENZENE /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		323	NONYL BENZENE/OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
		721	NONYL BENZENE /OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN DIALYSED
		169	NONYL BENZENE /OXYETHYLENE/ 30 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		157	NONYL BENZENE /OXYETHYLENE/ 30.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		324	NONYL BENZENE/OXYETHYLENE/50 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
		338	NONYL BENZENE/OXYETHYLENE/100 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		140	SODIUM DECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN
		139	SODIUM DODECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN

Structural Indexes of Compounds with Keys to Compound Numbers—Continued

PART 4. Polyoxyethylenes grouped by distribution of heads arranged by number of carbon atoms in longest hydrophobic tail and by heads.

4A. POLYOXYETHYLENES - HOMOGENEOUS HEAD GROUPS	4B. POLYOXYETHYLENES - REDUCED POLYDISPERSITY OF HEAD GROUPS
OE 1	OE 4
461 BUTYL/OXYETHYLENE/1 ALCOHOL--BUTYL GLYCOL ETHER HOMOGENEOUS HEAD GROUP	325 DODECYL/OXYETHYLENE/4 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
423 OCTYL/OXYETHYLENE/1 ALCOHOL--OCTYL GLYCOL ETHER HOMOGENEOUS HEAD GROUP	312 TRIDECYL/OXYETHYLENE/5 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
207 P-T-OCTYL BENZENE /OXYETHYLENE/1 ALCOHOL HOMOGENOUS HEAD GROUP	583 METHYL /OXYETHYLENE/ 6.0 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
208 P-T-OCTYL BENZENE /OXYETHYLENE/2 ALCOHOL HOMOGENOUS HEAD GROUP	586 METHYL /OXYETHYLENE/ 7.6 OCTANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
103 HEXYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENOUS HEAD GROUP	580 METHYL /OXYETHYLENE/ 7.0 DECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
104 OCTYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENOUS HEAD GROUP	115 DODECYL /OXYETHYLENE/7 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS
209 P-T-OCTYL BENZENE /OXYETHYLENE/3 ALCOHOL HOMOGENOUS HEAD GROUP	201 DECYL /OXYETHYLENE/8 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS
107 DECYL /OXYETHYLENE/ 3 ALCOHOL HOMOGENOUS HEAD GROUP	584 METHYL /OXYETHYLENE/ 8.4 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
OE 4	313 TRIDECYL/OXYETHYLENE/9.5 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
380 HEXYL/OXYETHYLENE/4 ALCOHOL HOMOGENEOUS HEAD GROUP	OE 10
210 P-T-OCTYL BENZENE /OXYETHYLENE/4 ALCOHOL HOMOGENOUS HEAD GROUP	317 T-OCTYL BENZENE/OXYETHYLENE/10 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
379 DECYL/OXYETHYLENE/4 ALCOHOL HOMOGENEOUS HEAD GROUP	320 NONYL BENZENE/OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
381 HEXYL/OXYETHYLENE/5 ALCOHOL HOMOGENEOUS HEAD GROUP	581 METHYL /OXYETHYLENE/ 10.3 DECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
211 P-T-OCTYL BENZENE /OXYETHYLENE/5 ALCOHOL HOMOGENOUS HEAD GROUP	202 DECYL /OXYETHYLENE/11 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS
378 DECYL/OXYETHYLENE/5 ALCOHOL HOMOGENEOUS HEAD GROUP	585 METHYL /OXYETHYLENE/ 11.2 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
377 DODECYL/OXYETHYLENE/ 5 ALCOHOL HOMOGENEOUS HEAD GROUP	578 METHYL /OXYETHYLENE/ 11.9 DECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
OE 6	204 DECYL /OXYETHYLENE/12 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS
393 BUTYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP	205 DODECYL /OXYETHYLENE/12 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS
394 1-METHYL PROPYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP	579 METHYL /OXYETHYLENE/ 12.5 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS
294 HEXYL/OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP	OE 14
395 2-ETHYL BUTYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP	326 DODECYL/OXYETHYLENE/14 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
105 OCTYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP	328 OCTADECYL/OXYETHYLENE/14 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
396 2-PROPYL PENTYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP	314 TRIDECYL/OXYETHYLENE/14 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
212 P-T-OCTYL BENZENE /OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP	321 NONYL BENZENE/OXYETHYLENE/15 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
108 DECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP	716 DODECYL /OXYETHYLENE/16 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
397 2-BUTYL HEXYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP	535 HEXADECYL/OXYETHYLENE/18 ALCOHOL
110 DODECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP	OE 20
289 TETRADECYL/OXYETHYLENE/6 ALCOHOL HOMOGENOUS HEAD GROUP	318 T-OCTYL BENZENE/OXYETHYLENE/20 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
282 HEXADECYL /OXYETHYLENE/ 6 ALCOHOL HOMOGENOUS HEAD GROUP	322 NONYL BENZENE/OXYETHYLENE/20 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
OE 7	327 DODECYL/OXYETHYLENE/23 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
213 P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL HOMOGENOUS HEAD GROUP	315 TRIDECYL/OXYETHYLENE/20 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
488 DODECYL/OXYETHYLENE/7 ALCOHOL HOMOGENEOUS HEAD GROUP	319 T-OCTYL BENZENE/OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS
330 HEXADECYL/OXYETHYLENE/7 ALCOHOL HOMOGENEOUS HEAD GROUP	323 NONYL BENZENE/OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION
214 P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL HOMOGENOUS HEAD GROUP	721 NONYL BENZENE /OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN DIALYSED
106 OCTYL /OXYETHYLENE/ 9 ALCOHOL HOMOGENOUS HEAD GROUP	116 DODECYL /OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS
215 P-T-OCTYL BENZENE /OXYETHYLENE/9 ALCOHOL HOMOGENOUS HEAD GROUP	
109 DECYL /OXYETHYLENE/ 9 ALCOHOL HOMOGENOUS HEAD GROUP	
398 2-BUTYL HEXYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP	
331 HEXADECYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP	
489 DODECYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP	
OE 10	
216 P-T-OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL HOMOGENOUS HEAD GROUP	
490 DODECYL/OXYETHYLENE/12 ALCOHOL HOMOGENEOUS HEAD GROUP	
332 HEXADECYL/OXYETHYLENE/12 ALCOHOL HOMOGENEOUS HEAD GROUP	
333 HEXADECYL/OXYETHYLENE/15 ALCOHOL HOMOGENEOUS HEAD GROUP	
334 HEXADECYL/OXYETHYLENE/21 ALCOHOL HOMOGENEOUS HEAD GROUP	

PART 4. Polyoxyethylenes grouped by distribution of heads arranged by number of carbon atoms in longest hydrophobic tail and by heads - Continued

316	TRIDECYL/OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION	OE 10	675	OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
117	HEXADECYL /OXYETHYLENE/30 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS		226	P-T-OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
324	NONYL BENZENE/OXYETHYLENE/50 ALCOHOL BRANCHED CHAIN, REDUCED OE DISTRIBUTION		167	NONYL BENZENE /OXYETHYLENE/ 10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
329	OCTADECYL/OXYETHYLENE/100 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS		337	NONYL BENZENE/OXYETHYLENE/10.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
			144	DECYL /OXYETHYLENE/ 10.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
			517	DECYL/OXO-PROCESS/ /OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
			442	/OXYETHYLENE/10 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS
4C. POLYOXYETHYLENES - NATURAL DISTRIBUTION OF HEAD GROUPS			310	DODECYL/OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
OE 1			159	DODECYL BENZENE /OXYETHYLENE/ 10.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
217	P-T-OCTYL BENZENE /OXYETHYLENE/1 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		470	DODECYL/OXYETHYLENE/10.6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
218	P-T-OCTYL BENZENE /OXYETHYLENE/2 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		521	TRIDECYL/OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
219	P-T-OCTYL BENZENE /OXYETHYLENE/3 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		432	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/10 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
220	P-T-OCTYL BENZENE /OXYETHYLENE/4 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		149	TRIDECYL /OXYETHYLENE/ 10.1 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
515	ISO-OCTYL/OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION		435	OCTADECYL/OXYETHYLENE/10 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
516	NONYL/OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION			
519	DECYL/OXO-PROCESS/ /OXYETHYLENE/4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION		OE 11	
440	/OXYETHYLENE/4 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS		463	NONYL BENZENE/OXYETHYLENE/11 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
			523	DECYL BENZENE PARA/OXYETHYLENE/11.0 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
OE 5			522	DECYL BENZENE ORTHO/OXYETHYLENE/11.2 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
221	P-T-OCTYL BENZENE /OXYETHYLENE/5 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		164	DODECYL /OXYETHYLENE/ 12 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
153	NONYL BENZENE /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION		467	TRIDECYL/SECONDARY/ /OXYETHYLENE/12 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
143	DECYL /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION		437	OLEYL/CIS-9-OCTADECENOYL/ /OXYETHYLENE/12 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
158	DODECYL BENZENE /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION			
148	TRIDECYL /OXYETHYLENE/ 5.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION		OE 14	
674	DIISOBUTYL BENZENE/OXYETHYLENE/6 ALCOHOL (DB) BRANCHED CHAIN, NATURAL OE DISTRIBUTION		145	DECYL /OXYETHYLENE/ 14.9 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
222	P-T-OCTYL BENZENE /OXYETHYLENE/6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		524	HEXADECYL/OXYETHYLENE/14 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
468	DODECYL/OXYETHYLENE/6.2 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		464	NONYL BENZENE/OXYETHYLENE/15 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
518	TRIMETHYLNONYL/OXYETHYLENE/6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION		168	NONYL BENZENE /OXYETHYLENE/ 15 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
223	P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		155	NONYL BENZENE /OXYETHYLENE/ 15.4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
469	DODECYL/OXYETHYLENE/7.6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		160	DODECYL BENZENE /OXYETHYLENE/ 15.1 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
			150	TRIDECYL /OXYETHYLENE/ 15.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
OE 8			433	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/15 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
335	OCTYL BENZENE/OXYETHYLENE/8.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION			
224	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		OE 16	
520	UNDECYL/OXYETHYLENE/8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		227	P-T-OCTYL BENZENE /OXYETHYLENE/16 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
441	/OXYETHYLENE/8 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS		582	METHYL /OXYETHYLENE/ 16.0 DECANOATE NATURAL DISTRIBUTION OF HEAD GROUPS
163	DODECYL /OXYETHYLENE/ 8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		471	DODECYL/OXYETHYLENE/15.8 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
431	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/8.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION		438	OLEYL/CIS-9-OCTADECENOYL/ /OXYETHYLENE/16 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
206	TRITON X-100(P-T-OCTYL BENZENE/OXYETHYLENE/9)NATURAL DISTRIBUTION OF HEAD GROUPS		165	DODECYL /OXYETHYLENE/ 18 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
225	P-T-OCTYL BENZENE /OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS			
336	NONYL BENZENE/OXYETHYLENE/9.5 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION		OE 20	
154	NONYL BENZENE /OXYETHYLENE/ 9.8 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION		151	TRIDECYL /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
276	NONAETHYLENE GLYCOL MONODODECANOATE NATURAL DISTRIBUTION OF HEAD GROUPS		436	OCTADECYL/OXYETHYLENE/20 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
465	TRIDECYL/OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		439	OLEYL/CIS-9-OCTADECENOYL/ /OXYETHYLENE/20 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUP
466	TRIDECYL/SECONDARY/ /OXYETHYLENE/9 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS		156	NONYL BENZENE /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION

PART 4. *Polyoxyethylenes grouped by distribution of heads arranged by number of carbon atoms in longest hydrophobic tail and by heads—Continued*

146	DECYL /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	170	DODECYL /OXYETHYLENE/ 28 ALCOHOL REDUCED DISTRIBUTION OF HEAD GROUPS
443	/OXYETHYLENE/20 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS	147	DECYL /OXYETHYLENE/ 29.4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
472	DODECYL/OXYETHYLENE/20.4 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	169	NONYL BENZENE /OXYETHYLENE/ 30 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
161	DODECYL BENZENE /OXYETHYLENE/ 20.1 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	157	NONYL BENZENE /OXYETHYLENE/ 30.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
434	TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/22 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION	162	DODECYL BENZENE /OXYETHYLENE/ 30.6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
166	DODECYL /OXYETHYLENE/ 23 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	152	TRIDECYL /OXYETHYLENE/ 30.6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION
		474	DODECYL/OXYETHYLENE/38.6 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
OE-25		228	P-T-OCTYL BENZENE /OXYETHYLENE/40 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
444	/OXYETHYLENE/25 SORBITAN MONOLAURATE ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS	475	DODECYL/OXYETHYLENE/67.3 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS
473	DODECYL/OXYETHYLENE/27.1 ALCOHOL NATURAL DISTRIBUTION OF HEAD GROUPS	338	NONYL BENZENE/OXYETHYLENE/100 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION

Structural Indexes of Compounds with Keys to Compound Numbers—Continued

PART 5. Ionics grouped by counterion and arranged by number of carbon atoms in longest hydrophobic tail and by heads.

5A. ANIONICS BY COUNTERION

HYDROGEN

428 PERFLUORO ACETIC ACID
 429 PERFLUORO PROPIONIC ACID
 43 BUTYRIC ACID
 452 3-4-DICHLOROPERFLUORO BUTYRIC/KEL-F/ACID
 430 PERFLUORO BUTYRIC ACID
 700 HEXANOIC ACID
 453 3-5-6-TRICHLOROPERFLUORO HEXANOIC/KEL-F/ACID
 416 PERFLUORO HEXANOIC ACID
 374 DODECAPLUOROHEPTANOIC ACID H/CF₂/6COOH
 529 OCTANOIC ACID
 417 PERFLUORO OCTANOIC ACID
 375 HEXADECAPLUORONONANOIC ACID H/CF₂/8COOH
 611 ALPHAPHOSPHONO PELARGONIC ACID
 530 DECANOIC ACID
 455 PERFLUORO DECANOIC ACID
 612 ALPHAPHOSPHONO DECANOIC ACID
 536 NONYL SULFONIC ACID
 272 TRI-ISOPROPYL BENZENE SULFONIC ACID
 531 DODECANOIC ACID
 602 ALPHA SULFO LAURIC ACID
 613 ALPHAPHOSPHONO DODECANOIC ACID
 537 UNDECYL SULFONIC ACID

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705 DODECYL SULFURIC ACID
 200 DODECYL SULFONIC ACID
 247 DODECANE 1-HYDROXY 2-SULFONIC ACID
 532 TETRADECANOIC ACID
 614 ALPHAPHOSPHONO TETRADECANOIC ACID
 189 ALPHA SULFOMYRISTIC ACID
 242 TRIDECANE 1-SULFONIC ACID
 243 TETRADECANE 1-SULFONIC ACID
 248 TETRADECANE 1-HYDROXY 2-SULFONIC ACID
 533 HEXADECANOIC ACID
 190 ALPHA SULFOPALMITIC ACID
 615 ALPHAPHOSPHONO HEXADECANOIC ACID
 244 PENTADECANE 1-SULFONIC ACID
 245 HEXADECANE 1-SULFONIC ACID
 249 HEXADECANE 1-HYDROXY 2-SULFONIC ACID
 534 OCTADECANOIC ACID
 191 ALPHA SULFOSTEARIC ACID
 551 PHENYL SULFOSTEARIC ACID
 552 TOLYL SULFOSTEARIC ACID
 553 XYLYL SULFOSTEARIC ACID
 246 HEPTADECANE 1-SULFONIC ACID
 232 OCTADECANE 1-SULFONIC ACID
 250 OCTADECANE 1-HYDROXY 2-SULFONIC ACID

SODIUM

699 SODIUM BUTYRATE
 681 SODIUM DIBUTYL BENZENE SULFONATE
 682 SODIUM DIBUTYL NAPHTHALENE SULFONATE /NEKAL/
 484 SODIUM PENTANOATE/VALERATE/
 357 SODIUM DI-N-BUTYL SULFOSUCCINATE
 261 SODIUM DI-ISOBUTYL SULFOSUCCINATE
 445 SODIUM PARA-BIS-/N-BUTYL/ BENZENE SULFONATE
 556 ARESKAP 100 /MONOBUTYL PHENYLPHENOL SODIUM MONOSULFONATE/
 557 ARESKET 300 /MONOBUTYL BIPHENYL SODIUM MONOSULFONATE/
 558 ARESKLENE 400 /DIBUTYL PHENYLPHENOL DISODIUMDISULFONATE
 485 SODIUM HEXANOATE/CAPROATE/
 258 SODIUM DI-N-AMYL SULFOSUCCINATE
 343 SODIUM PENTANE SULFONATE

C-6

486 SODIUM HEPTANOATE
 259 SODIUM DI-N-HEXYL SULFOSUCCINATE
 352 SODIUM DI-1-METHYLISOMYL SULFOSUCCINATE
 344 SODIUM HEXANE SULFONATE
 501 SODIUM HEXYL BENZENE SULFONATE

446 SODIUM PARA-BIS-/N-HEXYL/ BENZENE SULFONATE
 476 SODIUM OCTANOATE
 502 SODIUM HEPTYL BENZENE SULFONATE

C-8

487 SODIUM NONANOATE
 260 SODIUM DI-N-OCTYL SULFOSUCCINATE
 262 SODIUM DI-2-ETHYL-HEXYL SULFOSUCCINATE
 6 SODIUM ALPHA SULFOPELARGONIC ACID
 25 SODIUM ETHYL ALPHA SULFOPELARGONATE
 26 SODIUM AMYL ALPHA SULFOPELARGONATE
 27 SODIUM HEXYL ALPHA SULFOPELARGONATE
 28 SODIUM HEPTYL ALPHA SULFOPELARGONATE
 7 SODIUM OCTYL ALPHA SULFOPELARGONATE
 31 SODIUM 2 OCTYL ALPHA SULFOPELARGONATE
 32 SODIUM 2 ETHYLHEXYL ALPHA SULFOPELARGONATE
 35 SODIUM H/CF₂CF₂/3CH₂ ALPHA SULFOPELARGONATE
 605 SODIUM AMYL ALPHAPHOSPHONO PELARGONATE
 181 SODIUM OCTYL 1-SULFONATE
 2 SODIUM OCTYL 1 SULFATE
 66 SODIUM OCTYL 2 SULFATE
 49 SODIUM P OCTYL BENZENE SULFONATE
 503 SODIUM OCTYL BENZENE SULFONATE
 172 SODIUM 2-N-OCTYL BENZENE SULFONATE
 510 SODIUM 2-ETHYL-HEXYL BENZENE SULFONATE
 676 SODIUM 1,1,3,3-TETRAMETHYL BUTYL BENZENE SULFONATE
 677 SODIUM DI-/1,1,3,3-TETRAMETHYL BUTYL/BENZENESULFONATE
 447 SODIUM PARA-BIS-/N-OCTYL/ BENZENE SULFONATE

C-9

299 SODIUM DECANOATE
 29 SODIUM NONYL ALPHA SULFOPELARGONATE
 616 MONOSODIUM ALPHAPHOSPHONO DECANOATE
 606 SODIUM AMYL ALPHAPHOSPHONO CAPRATE
 136 SODIUM ALPHA DIMETHYL AMINO CAPRATE
 295 SODIUM NONYL 1-SULFATE
 493 SODIUM P-NONYL BENZENE SULFONATE
 504 SODIUM NONYL BENZENE SULFONATE
 271 SODIUM TRI-ISO-PROPYL BENZENE SULFONATE
 138 SODIUM NONYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN

C-10

30 SODIUM DECYL ALPHA SULFOPELARGONATE
 33 SODIUM /OXO/ DECYL ALPHA SULFOPELARGONATE
 3 SODIUM DECYL 1 SULFATE
 15 SODIUM DECYL 2 SULFATE
 182 SODIUM DECYL 1-SULFONATE
 50 SODIUM P DECYL BENZENE SULFONATE
 505 SODIUM DECYL BENZENE SULFONATE
 173 SODIUM 2-N-DECYL BENZENE SULFONATE
 511 SODIUM 2-PROPYL-HEPTYL BENZENE SULFONATE
 140 SODIUM DECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN
 561 SANTOMERSE D /SODIUM DECYLBENZENE SULFONATE/

C-11

273 SODIUM DODECANOATE
 527 SODIUM UNDECANE-3-CARBOXYLATE
 235 SODIUM ALPHA SULFO LAURIC ACID
 603 SODIUM PROPYL ALPHA SULFO LAURATE
 607 SODIUM ISOPROPYL ALPHAPHOSPHONO LAURATE
 620 DISODIUM ALPHAPHOSPHONO DODECANOATE
 617 MONOSODIUM ALPHAPHOSPHONO DODECANOATE
 311 SODIUM UNDECYL 1-SULFATE
 72 SODIUM UNDECYL 3 SULFATE
 80 SODIUM UNDECYL 6 SULFATE
 639 SODIUM UNDECYL THIOSULFATE
 462 SODIUM MONOLAURIN SULFATE
 418 SODIUM UNDECYL SULFONATE
 45 SODIUM P 1 METHYL DECYL BENZENE SULFONATE
 678 SODIUM 1,1-DIMETHYLNONYL BENZENE SULFONATE
 679 SODIUM 3-BUTYL HEPTYL BENZENE SULFONATE

PART 5. Ionics grouped by counterion and arranged by number of carbon atoms in longest hydrophobic tail and by heads - Continued

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34 SODIUM DODECYL ALPHA SULFOPELARGONATE
 1 SODIUM DODECYL 1 SULFATE
 67 SODIUM DODECYL 2 SULFATE
 562 SODIUM DODECENYL SULFATE
 636 SODIUM DODECYL THIOSULFATE
 541 SODIUM DODECYL MONO-OXYETHYLENE SULFATE
 542 SODIUM DODECYL DIOXYETHYLENE SULFATE
 113 SODIUM DODECYL TRI-OXYETHYLENE SULFATE
 543 SODIUM DODECYL TETRA-OXYETHYLENE SULFATE
 114 SODIUM DODECYL /OXYETHYLENE/17.5 SULFATE
 597 SODIUM DODECYL MONO-OXYPROPYL SULFATE
 179 SODIUM DODECANE 1-SULFONATE
 175 SODIUM DODECANE 2-SULFONATE
 238 SODIUM DODECANE 1-HYDROXY 2-SULFONATE
 51 SODIUM P DODECYL BENZENE SULFONATE
 506 SODIUM DODECYL BENZENE SULFONATE
 171 SODIUM 2-N-DODECYL BENZENE SULFONATE
 301 SODIUM 3-N-DODECYL BENZENE SULFONATE
 302 SODIUM 4-N-DODECYL BENZENE SULFONATE
 514 SODIUM 6-N-DODECYL BENZENE SULFONATE
 512 SODIUM 2-BUTYL-OCTYL BENZENE SULFONATE
 492 SODIUM TETRAPROPYLENE/1-3-5-7-TETRAMETHYL-OCTYL/BENZENE SULFONATE
 680 SODIUM 2-PROPYL-4-METHYL-OCTYL BENZENE SULFONATE
 139 SODIUM DODECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN
 554 SANTOMERSE 3 /SODIUM DODECYL BENZENE SULFONATE/

C-13

298 SODIUM TETRADECANOATE
 236 SODIUM ALPHA SULFO MYRISTIC ACID
 604 SODIUM METHYL ALPHA SULFO MYRISTATE
 233 DISODIUM ALPHA SULFO MYRISTATE
 618 MONOSODIUM ALPHAPHOSPHONO TETRADECANOATE
 608 SODIUM METHYL ALPHAPHOSPHONO MYRISTATE
 621 DISODIUM ALPHAPHOSPHONO TETRADECANOATE
 624 TRISODIUM ALPHAPHOSPHONO TETRADECANOATE
 68 SODIUM TRIDECYL 2 SULFATE
 83 SODIUM TRIDECYL 7 SULFATE
 229 SODIUM TRIDECANE 1-SULFONATE
 46 SODIUM P 1 METHYL DODECYL BENZENE SULFONATE
 141 SODIUM TRIDECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN

C-14

4 SODIUM TETRADECYL 1 SULFATE
 16 SODIUM TETRADECYL 2 SULFATE
 73 SODIUM TETRADECYL 3 SULFATE
 17 SODIUM TETRADECYL 4 SULFATE
 77 SODIUM TETRADECYL 5 SULFATE
 525 SODIUM TETRADECYL 6-SULFATE
 84 SODIUM TETRADECYL 7 SULFATE
 526 SODIUM 2-DI-N-HEXYL ETHYL SULFATE
 544 SODIUM TETRADECYL MONO-OXYETHYLENE SULFATE
 545 SODIUM TETRADECYL DI-OXYETHYLENE SULFATE
 546 SODIUM TETRADECYL TRI-OXYETHYLENE SULFATE
 598 SODIUM TETRADECYL MONO-OXYPROPYL SULFATE
 599 SODIUM TETRADECYL DI-OXYPROPYL SULFATE
 183 SODIUM TETRADECYL 1-SULFONATE
 176 SODIUM TETRADECANE 2-SULFONATE
 239 SODIUM TETRADECANE 1-HYDROXY 2-SULFONATE
 507 SODIUM TETRADECYL BENZENE SULFONATE
 174 SODIUM 2-N-TETRADECYL BENZENE SULFONATE
 513 SODIUM 2-AMYL-NONYL BENZENE SULFONATE

C-15

300 SODIUM HEXADECANOATE
 237 SODIUM ALPHA SULFO PALMITIC ACID
 36 SODIUM METHYL ALPHA SULFOPALMITATE
 192 SODIUM ETHYL ALPHA SULFOPALMITATE
 193 SODIUM PROPYL ALPHA SULFOPALMITATE
 234 DISODIUM ALPHA SULFO PALMITATE
 197 DISODIUM 2 SULFOETHYL ALPHA SULFOPALMITATE
 619 MONOSODIUM ALPHAPHOSPHONO HEXADECANOATE
 609 SODIUM ISOPROPYL ALPHAPHOSPHONO PALMITATE
 622 DISODIUM ALPHAPHOSPHONO HEXADECANOATE
 625 TRISODIUM ALPHAPHOSPHONO HEXADECANOATE
 69 SODIUM PENTADECYL 2 SULFATE
 74 SODIUM PENTADECYL 3 SULFATE
 78 SODIUM PENTADECYL 5 SULFATE
 85 SODIUM PENTADECYL 8 SULFATE
 230 SODIUM PENTADECANE 1-SULFONATE
 47 SODIUM P 1 METHYL TETRADECYL BENZENE SULFONATE

142 SODIUM PENTADECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN

C-16

5 SODIUM HEXADECYL 1 SULFATE
 75 SODIUM HEXADECYL 4 SULFATE
 81 SODIUM HEXADECYL 6 SULFATE
 86 SODIUM HEXADECYL 8 SULFATE
 52 SODIUM HEXADECYL MONO OXYETHYLENE SULFATE
 53 SODIUM HEXADECYL DI OXYETHYLENE SULFATE
 54 SODIUM HEXADECYL TRI OXYETHYLENE SULFATE
 55 SODIUM HEXADECYL TETRA OXYETHYLENE SULFATE
 600 SODIUM HEXADECYL MONO-OXYPROPYL SULFATE
 184 SODIUM HEXADECYL 1-SULFONATE
 177 SODIUM HEXADECANE 2-SULFONATE
 240 SODIUM HEXADECANE 1-HYDROXY 2-SULFONATE
 508 SODIUM HEXADECYL BENZENE SULFONATE

C-17

448 SODIUM OCTADECANOATE /STEARATE/
 263 SODIUM OLEATE /CIS-9-OCTADECENOATE/
 264 SODIUM ELAIDATE /TRANS-9-OCTADECENOATE/
 9 SODIUM ALPHA SULFOSTEARIC ACID
 194 SODIUM METHYL ALPHA SULFOSTEARATE
 195 SODIUM ETHYL ALPHA SULFOSTEARATE
 196 SODIUM PROPYL ALPHA SULFOSTEARATE
 199 SODIUM ISOPROPYL ALPHA SULFOSTEARATE
 10 DISODIUM ALPHA SULFOSTEARATE
 198 DISODIUM 2 SULFOETHYL ALPHA SULFOSTEARATE
 11 SODIUM ALPHA SULFO PHENYL STEARIC ACID
 8 DISODIUM ALPHA SULFOPHENYLSTEARATE
 12 SODIUM 9,10 DICHLORO ALPHA SULFOSTEARIC ACID
 13 DISODIUM 9,10 DICHLORO ALPHA SULFOSTEARATE
 14 DISODIUM 9,10 DIHYDROXY ALPHA SULFOSTEARATE
 610 SODIUM METHYL ALPHAPHOSPHONO STEARATE
 623 DISODIUM ALPHAPHOSPHONO OCTADECANOATE
 626 TRISODIUM ALPHAPHOSPHONO OCTADECANOATE
 70 SODIUM HEPTADECYL 2 SULFATE
 87 SODIUM HEPTADECYL 9 SULFATE
 231 SODIUM HEPTADECANE 1-SULFONATE
 48 SODIUM P 1 METHYL HEXADECYL BENZENE SULFONATE

C-18

64 SODIUM OCTADECYL 1 SULFATE
 71 SODIUM OCTADECYL 2 SULFATE
 76 SODIUM OCTADECYL 4 SULFATE
 82 SODIUM OCTADECYL 6 SULFATE
 61 SODIUM OLEYL/CIS 9 OCTADECENOYL/ SULFATE
 62 SODIUM ELAIDYL/TRANS 9 OCTADECENOYL/SULFATE
 63 SODIUM 9 10 DICHLORO OCTADECYL SULFATE
 56 SODIUM OCTADECYL MONO OXYETHYLENE SULFATE
 547 SODIUM OLEYL MONO-OXYETHYLENE SULFATE
 57 SODIUM OCTADECYL DI OXYETHYLENE SULFATE
 548 SODIUM OLEYL DI-OXYETHYLENE SULFATE
 58 SODIUM OCTADECYL TRI OXYETHYLENE SULFATE
 549 SODIUM OLEYL TRI-OXYETHYLENE SULFATE
 59 SODIUM OCTADECYL TETRA OXYETHYLENE SULFATE
 601 SODIUM OCTADECYL MONO-OXYPROPYL SULFATE
 349 SODIUM OCTADECANE 1-SULFONATE
 178 SODIUM OCTADECANE 2-SULFONATE
 419 SODIUM ALPHA-HEPTYL UNDECYL SULFONATE
 241 SODIUM OCTADECANE 1-HYDROXY 2-SULFONATE
 509 SODIUM OCTADECYL BENZENE SULFONATE
 79 SODIUM NONADECYL 5 SULFATE
 88 SODIUM 1 NONYL DECYL SULFATE
 683 SODIUM EICOSYLBENZENE SULFONATE
 89 SODIUM 1 TETRADECYL PENTADECYL SULFATE

POTASSIUM

188 POTASSIUM HEXANOATE
 701 POTASSIUM PERFLUROHEXANOATE
 296 POTASSIUM HEPTANOATE
 704 POTASSIUM 4-HEXYL RESORCINOLATE
 44 POTASSIUM OCTANOATE
 456 POTASSIUM PERFLURO OCTANOATE
 350 POTASSIUM NONANOATE
 420 POTASSIUM 1-1-2-OCTANE TRICARBOXYLATE
 90 POTASSIUM DECANOATE
 702 POTASSIUM PERFLURODECANOATE
 668 DIPOTASSIUM OCTYL MALONATE
 297 POTASSIUM UNDECANOATE
 425 POTASSIUM 1-1-2-DECANE TRICARBOXYLATE
 91 POTASSIUM DODECANOATE
 669 DIPOTASSIUM DECYL MALONATE

PART 5. Ionics grouped by counterion and arranged by number of carbon atoms in longest hydrophobic tail and by heads—Continued

C-12		347	OCTYL TRIMETHYLAMMONIUM OCTYL SULFATE
351	POTASSIUM TRIDECANOATE	287	OCTYL TRIMETHYLAMMONIUM OCTANE SULFONATE
421	POTASSIUM 1-1-2-DODECANE TRICARBOXYLATE	642	OCTYL TRIMETHYLAMMONIUM DECANE SULFATE
632	POTASSIUM N-DODECYL BETA-ALANINATE	353	OCTYL TRIMETHYLAMMONIUM DECANE SULFONATE
634	POTASSIUM DODECYL SULFATE	385	OCTYL TRIMETHYLAMMONIUM DODECYL SULFATE
40	POTASSIUM DODECYL 1 SULFONATE	346	DECYL TRIMETHYLAMMONIUM DECYL SULFATE
92	POTASSIUM TETRADECANOATE	288	DECYL TRIMETHYLAMMONIUM DECANESULFONATE
670	DIPOTASSIUM DODECYL MALONATE	280	DECYL TRIMETHYL AMMONIUM DODECYL SULFATE
426	POTASSIUM 1-1-2-TETRADECANE TRICARBOXYLATE	643	DODECYL TRIMETHYLAMMONIUM OCTANE SULFATE
185	POTASSIUM HEXADECANOATE	281	DODECYL TRIMETHYLAMMONIUM DODECYL SULFATE
671	DIPOTASSIUM TETRADECYL MALONATE		
422	POTASSIUM 1-1-2-HEXADECANE TRICARBOXYLATE		
408	POTASSIUM HEXADECANE 1-SULFONATE		
256	POTASSIUM STEARATE		
305	POTASSIUM OLEATE/ CIS-9-OCTADECENOATE/		
629	POTASSIUM ELAIDATE/TRANS-9-OCTADECENOATE/		
255	POTASSIUM 9,10 DIHYDROXY STEARATE		
630	POTASSIUM RICINOLEATE/12 HYDROXY OLEATE/		
631	POTASSIUM RICINOLEATE/12 HYDROXY ELAIDATE/		
672	DIPOTASSIUM HEXADECYL MALONATE		
673	DIPOTASSIUM OCTADECYL MALONATE		
494	POTASSIUM DILINOLEATE		
OTHER MONOVALENT METALS			
111	LITHIUM DODECYL 1 SULFATE		
635	LITHIUM DODECYL SULFONATE		
637	LITHIUM TETRADECYL SULFATE		
638	LITHIUM HEXADECYL SULFATE		
627	CESIUM DODECANOATE		
23	SILVER DODECYL 1 SULFATE		
POLYVALENT METALS			
339	MAGNESIUM HEXANE SULFONATE		
340	MAGNESIUM OCTANE SULFONATE		
341	MAGNESIUM DECANE SULFONATE		
568	MAGNESIUM DODECYL SULFATE		
342	MAGNESIUM DODECANE SULFONATE		
24	CALCIUM DODECYL 1 SULFATE		
569	STRONTIUM DODECYL SULFATE		
573	CUPRIC DODECYL SULFATE		
576	CUPRIC TETRADECYL SULFATE		
577	CUPRIC HEXADECYL SULFATE		
572	COBALTOUS DODECYL SULFATE		
574	ZINC DODECYL SULFATE		
571	MANGANESE DODECYL SULFATE		
570	LEAD DODECYL SULFATE		
575	NICKEL DODECYL SULFATE		
AMMONIUM			
355	AMMONIUM DODECAFLUOROHEPTANOATE H/CF ₂ /6C00NH ₄		
286	AMMONIUM DI-2-ETHYL-HEXYL SULFOSUCCINATE		
372	AMMONIUM HEXADECYLAFLUORONONANOATE H/CF ₂ /8 C00 NH ₄		
373	AMMONIUM EICOSAFLUOROUNDDECANOATE H/CF ₂ /10 C00 NH ₄		
386	AMMONIUM DODECYL SULFATE		
387	METHYLAMMONIUM DODECYL SULFATE		
388	ETHYLAMMONIUM DODECYL SULFATE		
389	BUTYLAMMONIUM DODECYL SULFATE		
303	DI-ISOPROPYLAMMONIUM CAPRYLATE		
596	TETRAHYDROANACARDOL AMMONIUM MONOSULFONATE		
409	TRIETHANOLAMMONIUM DODECYL SULFATE		
60	TRIETHANOL AMMONIUM HEXADECYL SULFATE		
65	TRIETHANOLAMMONIUM OCTADECYL 1 SULFATE		
284	HEXANOLAMINE-CH ₃ CH ₂ /OH/CH ₂ C/CH ₃ /2NH ₂ -OCTANOATE		
285	HEXANOLAMINE-CH ₃ CH ₂ /OH/CH ₂ C/CH ₃ /2NH ₂ -OLEATE		
283	HEXANOLAMINE-CH ₃ CH ₂ /OH/CH ₂ C/CH ₃ /2NH ₂ -ELAIDATE		
QUATERNARIES			
112	TETRAMETHYL AMMONIUM DODECYL 1 SULFATE		
382	ETHYL TRIMETHYLAMMONIUM DODECYL SULFATE		
383	BUTYL TRIMETHYLAMMONIUM DODECYL SULFATE		
277	BENZYL TRIMETHYL AMMONIUM DODECANOATE		
720	1-6-DITRIMETHYLAMMONIUM-HEXANE/DODECYL SULFATE/2		
718	TETRAETHYLAMMONIUM DODECYL SULFATE		
719	TETRAETHYLAMMONIUM DODECYL SULFATE		
410	MORPHOLINIUM DODECYL SULFATE		
SURFACTANT			
390	HEXYLAMMONIUM DODECYL SULFATE		
391	OCTYLAMMONIUM DODECYL SULFATE		
640	HEXYL TRIMETHYLAMMONIUM HEXANE SULFATE		
644	HEXYL TRIMETHYLAMMONIUM HEXANE SULFONATE		
641	HEXYL TRIMETHYLAMMONIUM OCTANE SULFATE		
384	HEXYL TRIMETHYLAMMONIUM DODECYL SULFATE		
		5B. CATIONICS BY COUNTERIONS	
		HYDROXYL	
		706	PERFLUORO PROPYLAMINE
		708	HEXYLAMINE
		CHLORIDE	
		707	PERFLUORO PROPYLAMINE HYDROCHLORIDE
		709	HEXYLAMINE HYDROCHLORIDE
		354	HEXYL BENZYL DIMETHYLAMMONIUM CHLORIDE
		392	OCTYLAMMONIUM CHLORIDE
		483	DIOCTYL DIMETHYL AMMONIUM CHLORIDE
		135	OCTYL C BETAINES HYDROCHLORIDE
		451	PARA DI-ISOBUTYLPHENOXYETHOXYETHYL DIMETHYLBENZYL AMMONIUM CHLORIDE/HYAMINE 1622/
		359	OCTYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE
		137	ALPHA DIMETHYLAMINO CAPRIC ACID HYDROCHLORIDE
		C-10	
		37	DECYLAMMONIUM CHLORIDE
		203	DECYL TRIMETHYL AMMONIUM CHLORIDE
		356	DECYL BENZYL DIMETHYLAMMONIUM CHLORIDE
		360	DECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE
		304	CATOL 607 (N-/LAURYL-COLAMINO-FORMYL-METHYL/ - PYRIDINIUM CHLORIDE)
		C-12	
		38	DODECYL AMMONIUM CHLORIDE
		449	DODECYLMETHYL AMMONIUM CHLORIDE
		450	DODECYLDIMETHYL AMMONIUM CHLORIDE
		41	DODECYL TRIMETHYL AMMONIUM CHLORIDE
		399	DODECYL DIMETHYL ETHYLAMMONIUM CHLORIDE
		345	DIDODECYL DIMETHYLAMMONIUM CHLORIDE
		403	DODECYL DIMETHYLPHENYLAMMONIUM CHLORIDE
		279	DODECYL BENZYL DIMETHYLAMMONIUM CHLORIDE
		404	DODECYL DIMETHYL 2-PHENYLETHYLAMMONIUM CHLORIDE
			C ₆ H ₅ CH ₂ CH ₂ /N/CH ₃ /2/C ₁₂ H ₂₅
		407	DODECYL DIMETHYL 3-PHENYLPROPYLAMMONIUM CHLORIDE
			C ₆ H ₅ CH ₂ CH ₂ /N/CH ₃ /2/C ₁₂ H ₂₅
		370	DODECYL 3-4-METHYLENEDIPOXYBENZYL DIMETHYLAMMONIUM CHLORIDE
		371	DODECYL 3-4-DIMETHOXYBENZYL DIMETHYLAMMONIUM CHLORIDE
		361	DODECYL 4-NITROBENZYL DIMETHYL AMMONIUM CHLORIDE
		368	DODECYL 2-HYDROXY-5-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE
		365	DODECYL 2-CHLORO BENZYL DIMETHYLAMMONIUM CHLORIDE
		367	DODECYL 4-CHLORO BENZYL DIMETHYLAMMONIUM CHLORIDE
		366	DODECYL 2-4-DICHLORO BENZYL DIMETHYLAMMONIUM CHLORIDE
		369	DODECYL 3-4-DICHLORO BENZYL DIMETHYLAMMONIUM CHLORIDE
		406	DODECYL DIMETHYL META-TRIFLUOROMETHYLBENZYL AMMONIUM CHLORIDE
			C ₆ F ₅ CH ₂ CH ₂ /N/CH ₃ /2/C ₁₂ H ₂₅
		400	DODECYL METHYL DIETHYLAMMONIUM CHLORIDE
		405	DODECYL METHYLETHYLBENZYLAMMONIUM CHLORIDE
		401	DODECYL TRIETHYLAMMONIUM CHLORIDE
		22	DIMETHYL DODECYL AMINE OXIDE HYDROCHLORIDE
		633	N-DODECYL BETA-ALANINE HYDROCHLORIDE
		124	DODECYL N BETAINES HYDROCHLORIDE
		278	DODECYL PYRIDINIUM CHLORIDE
		528	DODECYL TROPYLUM PERCHLORATE
		500	DODECYL TRI/2-HYDROXYETHYL/AMMONIUM CHLORIDE
		C-13	
		402	TRIDECYL TRIMETHYLAMMONIUM CHLORIDE
		39	TETRADECYL AMMONIUM CHLORIDE
		42	TETRADECYL TRIMETHYL AMMONIUM CHLORIDE
		357	TETRADECYL BENZYL DIMETHYLAMMONIUM CHLORIDE
		362	TETRADECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE
		125	TETRADECYL N BETAINES HYDROCHLORIDE
		C-16	
		186	HEXADECYL AMMONIUM CHLORIDE

PART 5. Ionics grouped by counterion and arranged by number of carbon atoms in longest hydrophobic tail and by heads - Continued

275	HEXADECYL DIMETHYLBENZYLAMMONIUM CHLORIDE		
265	HEXADECYL TRIMETHYL AMMONIUM CHLORIDE		
266	HEXADECYL DIMETHYL 2-HYDROXYETHYL AMMONIUM CHLORIDE		
269	HEXADECYLDIMETHYL2,3-DIHYDROXYPROPYLAMMONIUM CHLORIDE		
363	HEXADECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE		
267	HEXADECYL DI-/2-HYDROXYETHYL/METHYL AMMONIUMCHLORIDE		
268	HEXADECYL TRI-/2-HYDROXYETHYL/ AMMONIUM CHLORIDE		
274	HEXADECYL PYRIDINIUM CHLORIDE		
693	N-CETYL 2-METHYL PYRIDINIUM CHLORIDE		
694	N-CETYL 3-METHYL PYRIDINIUM CHLORIDE		
695	N-CETYL 4-METHYL PYRIDINIUM CHLORIDE		
C-18			
187	OCTADECYL AMMONIUM CHLORIDE		
270	OCTADECYL TRIMETHYLAMMONIUM CHLORIDE		
358	OCTADECYL BENZYL DIMETHYLAMMONIUM CHLORIDE		
364	OCTADECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE		
655	OCTADECYL PYRIDINIUM CHLORIDE		
BROMIDE			
93	OCTYL TRIMETHYL AMMONIUM BROMIDE		
100	OCTYL PYRIDINIUM BROMIDE		
94	NONYL TRIMETHYL AMMONIUM BROMIDE		
95	DECYL TRIMETHYL AMMONIUM BROMIDE		
96	UNDECYL TRIMETHYL AMMONIUM BROMIDE		
101	UNDECYL PYRIDINIUM BROMIDE		
628	DODECYLAMMONIUM BROMIDE		
97	DODECYL TRIMETHYL AMMONIUM BROMIDE		
293	DODECYL DIMETHYL AMINE OXIDE HYDROBROMIDE		
290	DODECYL PYRIDINIUM BROMIDE		
717	DODECYLQUINOLINIUM BROMIDE		
C-14			
98	TETRADECYL TRIMETHYL AMMONIUM BROMIDE		
291	TETRADECYL TRIPROPYLAMMONIUM BROMIDE		
102	TETRADECYL PYRIDINIUM BROMIDE		
99	HEXADECYL TRIMETHYLAMMONIUM BROMIDE		
478	HEXADECYL DIMETHYLETHYLAMMONIUM BROMIDE		
292	HEXADECYL TRIPROPYLAMMONIUM BROMIDE		
427	HEXADECYL PYRIDINIUM BROMIDE		
477	OCTADECYL TRIMETHYLAMMONIUM BROMIDE		
657	OCTADECYL PYRIDINIUM BROMIDE		
IODIDE			
458	DECYL PYRIDINIUM IODIDE		
126	DODECYL TRIMETHYLAMMONIUM IODIDE		
376	DODECYL PYRIDINIUM IODIDE		
479	TETRADECYL PYRIDINIUM IODIDE		
480	HEXADECYL PYRIDINIUM IODIDE		
696	N-CETYL 2-METHYL PYRIDINIUM IODIDE		
697	N-CETYL-3-METHYL PYRIDINIUM IODIDE		
698	N-CETYL-4-METHYL PYRIDINIUM IODIDE		
481	OCTADECYL PYRIDINIUM IODIDE		
FLUORIDE			
130	DODECYL TRIMETHYL AMMONIUM FLUORIDE		
NITRATE			
482	DODECYL AMMONIUM NITRATE		
131	DODECYL TRIMETHYLAMMONIUM NITRATE		
654	OCTADECYL TRIMETHYLAMMONIUM NITRATE		
656	OCTADECYL PYRIDINIUM NITRATE		
BROMATE			
129	DODECYL TRIMETHYL AMMONIUM BROMATE		
666	HEXADECYL TRIBUTYLAMMONIUM BROMATE		
658	OCTADECYL TRIMETHYLAMMONIUM BROMATE		
662	OCTADECYL TRIETHYLAMMONIUM BROMATE		
663	OCTADECYL TRIPROPYLAMMONIUM BROMATE		
664	OCTADECYL TRIBUTYLAMMONIUM BROMATE		
665	OCTADECYL TRIAMYLAMMONIUM BROMATE		
IODATE			
127	DODECYL TRIMETHYL AMMONIUM IODATE		
660	HEXADECYL PYRIDINIUM IODATE		
661	OCTADECYL PYRIDINIUM IODATE		
SULFATE			
306	DECYL TRIMETHYLAMMONIUM SULFATE		
307	DODECYL TRIMETHYLAMMONIUM SULFATE		
491	DODECYL TROPYLIUM BISULFATE		
308	TETRADECYL TRIMETHYLAMMONIUM SULFATE		
309	HEXADECYL TRIMETHYLAMMONIUM SULFATE		
PHOSPHATE			
460	DODECYL TROPYLIUM MONOPHOSPHATE		
CARBOXYLATE			
128	DODECYL TRIMETHYL AMMONIUM FORMATE		
659	OCTADECYL TRIMETHYLAMMONIUM FORMATE		
415	OCTADECYLAMMONIUM ACETATE		
411	DECYLAMMONIUM ACETATE		
412	DODECYLAMMONIUM ACETATE		
413	TETRADECYLAMMONIUM ACETATE		
414	HEXADECYLAMMONIUM ACETATE		
667	OCTADECYL TRIMETHYLAMMONIUM OXALATE		
SURFACTANT			
391	OCTYLAMMONIUM DODECYL SULFATE		
347	OCTYL TRIMETHYLAMMONIUM OCTYL SULFATE		
287	OCTYL TRIMETHYLAMMONIUM OCTANE SULFONATE		
642	OCTYL TRIMETHYLAMMONIUM DECANE SULFATE		
353	OCTYL TRIMETHYLAMMONIUM DECANE SULFONATE		
385	OCTYL TRIMETHYLAMMONIUM DODECYL SULFATE		
346	DECYL TRIMETHYLAMMONIUM DECYL SULFATE		
280	DECYL TRIMETHYL AMMONIUM DODECYL SULFATE		
288	DECYL TRIMETHYLAMMONIUM DECANESULFONATE		
643	DODECYL TRIMETHYLAMMONIUM OCTANE SULFATE		
281	DODECYL TRIMETHYLAMMONIUM DODECYL SULFATE		

Structural Indexes of Compounds with Keys to Compound Numbers—Continued

PART 6. Commercial names and ill defined structures arranged alphabetically.

6. COMMERCIAL AND ILL-DEFINED

556	ARESKAP 100 /MONOBUTYL PHENYLPHENOL SODIUM MONOSULFONATE/	652	EMASOL 1130 /ALKYL POLYOXYETHYLENE SORBITAN ESTER/
557	ARESKET 300 /MONOBUTYL BIPHENYL SODIUM MONOSULFONATE/	653	EMULGEN 120 /ALKYL POLYOXYETHYLENE ETHER/
558	ARESKLENE 400 /DIBUTYL PHENYLPHENOL DISODIUMDISULFONATE	560	EMULSOL 607L (N-(2-KETO-2-(2,-LAUROXYLOXYETHYL AMINO)) ETHYL) PYRIDINIUM CHLORIDE
566	AQUAREX D	451	PARA DI-ISOBUTYLPHENOXYETHOXYETHYL DIMETHYLBENZYL AMMONIUM CHLORIDE/HYAMINE 1622/
559	CATOL 605 / (N-(2-KETO-2-(2,-LAUROYL OXYETHYLAMINO))ETHYL TRIMETHYLAMMONIUM CHLORIDE/	452	3-4-DICHLOROPERFLUORO BUTYRIC/KEL-F/ACID
304	CATOL 607 (N-/LAURYL-COLAMINO-FORMYL-METHYL/ - PYRIDINIUM CHLORIDE)	453	3-5-6-TRICHLOROPERFLUORO HEXANOIC/KEL-F/ACID
459	ALKYL/15-17/ /OXYETHYLENE/ /19-23/ALCOHOL / CETOMACROGOL 1000/	454	3-5-7-8-TETRACHLOROPERFLUORO OCTANOIC/KEL-F/ACID
565	DAXAD 11	550	LAURIC ACID DIETHANOLAMINE CONDENSATE
674	DIISOBUTYL BENZENE/OXYETHYLENE/6 ALCOHOL (DB) BRANCHED CHAIN, NATURAL OE DISTRIBUTION	564	NA OSR
494	POTASSIUM DILINOLEATE	682	SODIUM DIBUTYL NAPHTHALENE SULFONATE /NEKAL/
651	EMASOL 1120 /ALKYL POLYOXYETHYLENE SORBITAN ESTER/	538	PLURONIC L62
		539	RENEX 698
		561	SANTOMERSE D /SODIUM DECYLBENZENE SULFONATE/
		554	SANTOMERSE 3 /SODIUM DODECYL BENZENE SULFONATE/
		567	SA-178
		540	SIPONIC BC
		555	TERGITOL TMN
		563	ZEPHIRAN /COCONUT DIMETHYLBENZYL AMMONIUM CHLORIDE/

Table of Recommended and Selected Critical Micelle Concentrations

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 1 MOL WGT -	288.3	SODIUM DODECYL 1 SULFATE						
	10	8.67 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	10	8.81 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	10.0	8.55 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	1
	15	8.51 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	15	8.43 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	20	8.47 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	20	8.25 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	25	2.330X10 ⁻¹ D	BA	EQUIV CONDUCTNCE GRAPH	WILL MYSE	55005	T	1
		8.081X10 ⁻³ M					M	
	25	2.340X10 ⁻¹ D	BA	FOTOMTR SOLUBLZTN OROT	WILL MYSE	55005	T	1
		8.116X10 ⁻³ M					M	
	25	2.36 X10 ⁻¹ D	BB	DEBYE PLT LIGHT SCATTER	WILL MYSE	55005	T	1 X
		8.185X10 ⁻³ M					M	
	25	8.39 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	25	8.1 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	GODD HIGH	55018	K	1
	25	2.324X10 ⁻¹ D	BA	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T	1
		8.061X10 ⁻³ M					M	
	25	8.3 X10 ⁻³ M	BB	SURFACE TNSN LINEAR PLOT	MIUR MATS	57025	TA	1
	25	8.16 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	25	8.27 X10 ⁻³ W	BA	SPECFC CONDUCTNCE GRAPH	HAMA	62036	T	1
	25.0	8.27 X10 ⁻³ M	BA	SPECFC CONDUCTNCE EQUATNS	MUKE KAPA	66002	T	1
	25	8.15 X10 ⁻³ M	AB	SURFACE TENSION LOG PLOT	ELWO MYSE	66007	T	1
	25	8.2 X10 ⁻³ M	AA	SURFACE TNSN LINEAR PLOT	ELWO MYSE	66007	T	1
	25	8.4 X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	ELWO MYSE	66007	T	1 XY
	30	8.44 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	30	8.23 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	35	8.57 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	35	8.4 X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	1
	35	8.39 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	40	8.88 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	40	8.60 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	45	9.10 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	45	8.86 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	50	9.61 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	D
	50	9.18 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	D
	55	9.95 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	55	9.8 X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	1
	55.0	9.49 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	1
	55	9.61 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	60	1.016X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	65	1.091X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	70	1.14 X10 ⁻² M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	3
1. E-2 M AG NO3	35	5.0 X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	3
5. E 0 H DIOXANE	15	6.73 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3 X
1.0 E 1 H DIOXANE	15	7.31 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.5 E 1 H DIOXANE	15	9.03 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
2.0 E 1 H DIOXANE	15	1.38 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
2.5 E 1 H DIOXANE	15	2.10 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
2. E 0 H DIOXANE	25	8.01 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
3. E 0 H DIOXANE	25	8.06 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
5. E 0 H DIOXANE	25	7.7 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
7. E 0 H DIOXANE	25	8.5 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.0 E 1 H DIOXANE	25	9.0 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.5 E 1 H DIOXANE	25	1.31 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3 L
2.0 E 1 H DIOXANE	25	2.12 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
2.5 E 1 H DIOXANE	25	3.0 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
5. E 0 H DIOXANE	35	8.74 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.0 E 1 H DIOXANE	35	1.05 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.5 E 1 H DIOXANE	35	1.90 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.00 E 2 A DEUTERIUM OXIDE	25.0	8.05 X10 ⁻³ M	BA	SPECFC CONDUCTNCE EQUATNS	MUKE KAPA	66002	T	2
9.27 E 0 P ETHANOL	5	5.51 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3
3. E 0 P ETHANOL	10.0	7.33 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3
5. E 0 P ETHANOL	10.0	6.63 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3
6. E 0 P ETHANOL	10.0	6.33 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3 X
9. E 0 P ETHANOL	10.0	5.55 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3
9.27 E 0 P ETHANOL	10	5.50 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3
9.27 E 0 P ETHANOL	15	5.54 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3
9.27 E 0 P ETHANOL	20	5.67 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3
9.27 E 0 P ETHANOL	20	5.65 X10 ⁻³ M	CB	EQUIV CONDUCTNCE GRAPH	WARD	40004	P	3
2.002E 1 H ETHANOL	20	8.5 X10 ⁻³ M	CB	EQUIV CONDUCTNCE GRAPH	WARD	40004	P	3
9.27 E 0 P ETHANOL	25	5.96 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3
2.498E 1 P ETHANOL	25	1.067X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3
9.27 E 0 P ETHANOL	30	6.33 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3
2.498E 1 P ETHANOL	30	1.146X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3 X
9.27 E 0 P ETHANOL	35	6.72 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	3

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality

counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molar; Y - atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations – Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
2.498E 1 P	ETHANOL	35	1.310X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27 E 0 P	ETHANOL	40	7.19 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E 1 P	ETHANOL	40	1.496X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27 E 0 P	ETHANOL	45	7.72 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E 1 P	ETHANOL	45	1.656X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27 E 0 P	ETHANOL	50	8.30 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E 1 P	ETHANOL	50	1.831X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
3. E 0 P	ETHANOL	55.0	8.75 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
5. E 0 P	ETHANOL	55.0	8.40 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
6. E 0 P	ETHANOL	55.0	8.42 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9. E 0 P	ETHANOL	55.0	8.92 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27 E 0 P	ETHANOL	55	8.96 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
1.0 E 1 P	ETHANOL	55.0	9.28 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
1.5 E 1 P	ETHANOL	55.0	1.160X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.0 E 1 P	ETHANOL	55.0	1.505X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27 E 0 P	ETHANOL	60	9.70 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E 1 P	ETHANOL	60	2.170X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
1. E-1 M	NA BR	21	4.1 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3
			1.42 X10 ⁻³ M					M
1. E-2 M	NA CL	21	1.62 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3
			5.619X10 ⁻³ M					M
1. E-2 M	NA CL	21	1.52 X10 ⁻¹ D	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T 3
			5.272X10 ⁻³ M					M
3. E 2 M	NA CL	21	0.2 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 1
			3.19 X10 ⁻³ M					M
1. E-1 M	NA CL	21	4.3 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3
			1.49 X10 ⁻³ M					M
3. E-2 M	NA CL	25	9.00 X10 ⁻² D	BB	FOTOMTR SOLUBLZTN OROT	WILL MYSE	55005	T 1
			3.121X10 ⁻³ M					M
3. E-2 M	NA CL	25	9.03 X10 ⁻² D	BA	SPECFC CONDUCTNCE GRAPH	WILL MYSE	55005	T 1
			3.132X10 ⁻³ M					M
3. E-2 M	NA CL	25	9.18 X10 ⁻² D	BB	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T 1
			3.184X10 ⁻³ M					M
1.00 E-1 M	NA CL	25	4.30 X10 ⁻² D	BA	SPECFC CONDUCTNCE GRAPH	WILL MYSE	55005	T 3
			1.491X10 ⁻³ M					M
2. E-1 M	NA CL	25.0	9.0 X10 ⁻⁴ M	BA	SPECFC CONDUCTNCE GRAPH	MYSE MYSE	65018	T 3
1. E-2 M	NA F	21	1.61 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3
			5.584X10 ⁻³ M					M
1. E-1 M	NA F	21	4.2 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3
			1.45 X10 ⁻³ M					M
1. E-2 M	NA I	21	1.62 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3
			5.619X10 ⁻³ M					M
3. E-2 M	NA I	21	9.0 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 1
			3.12 X10 ⁻³ M					M
1. E-1 M	NA I	21	4.0 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3
			1.38 X10 ⁻³ M					M
1. E-2 M	NA NO3	35	5.7 X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T 3
5.03 E 0 H	PROPANOL-1	00.5	4.7 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.03 E 0 H	PROPANOL-1	10.5	4.0 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.03 E 0 H	PROPANOL-1	25.2	3.8 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.03 E 0 H	PROPANOL-1	33.5	4.1 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.03 E 0 H	PROPANOL-1	40.1	4.4 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.03 E 0 H	PROPANOL-1	50.0	5.1 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.71 E 0 H	PROPANOL-2	00.5	5.7 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.71 E 0 H	PROPANOL-2	10.5	4.9 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.71 E 0 H	PROPANOL-2	25.2	4.3 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	T 3
5.71 E 0 H	PROPANOL-2	33.5	4.5 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.71 E 0 H	PROPANOL-2	40.1	5.0 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.71 E 0 H	PROPANOL-2	50.0	5.7 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.06 E 0 H	PROPIONIC ACID	25.2	4.3 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.00 E 2 Y	PRESSURE	25	9.09 X10 ⁻³ W	BA	SPECFC CONDUCTNCE GRAPH	HAMA	62036	G 3
1.000E 3 Y	PRESSURE	25	9.45 X10 ⁻³ W	BA	SPECFC CONDUCTNCE GRAPH	HAMA	62036	G 3
1.500E 3 Y	PRESSURE	25	9.36 X10 ⁻³ W	BA	SPECFC CONDUCTNCE GRAPH	HAMA	62036	G 3
2.000E 3 Y	PRESSURE	25	9.09 X10 ⁻³ W	BA	SPECFC CONDUCTNCE GRAPH	HAMA	62036	G 3
3. E 0 D	SUCROSE	25	7.1 X10 ⁻³ M	CB	EQUIV CONDUCTNCE GRAPH	NAKA KAWA	64034	G 3
1.078E 1 C	0003	25.0	8.32 X10 ⁻³ M	CA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T 3
2.006E 1 C	0003	25.0	8.54 X10 ⁻³ M	CA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T 3
2.025E 1 C	0003	25.0	8.54 X10 ⁻³ M	CA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T 3
3.478E 1 C	0003	25.0	9.88 X10 ⁻³ M	CA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T 3
4.912E 1 C	0003	25.0	1.115X10 ⁻² M	CA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T 3
5.998E 1 C	0003	25.0	1.281X10 ⁻² M	BA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T 2
7.100E 1 C	0003	25.0	1.498X10 ⁻² M	BA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T 2
8.466E 1 C	0003	25.0	1.91 X10 ⁻² M	BA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T 2
9.495E 1 C	0003	25.0	2.65 X10 ⁻² M	BA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T 2
1.25 E 1 C	0004	RM	5.11 X10 ⁻³ M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T 3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
2.5 E 1 C 0004	RM	3.88 X10 ⁻³ M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	3
5.0 E 1 C 0004	RM	2.62 X10 ⁻³ M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	3
COMPOUND NO = 2 MOL WGT - 232.2 SODIUM OCTYL 1 SULFATE								
	10	1.421X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	15	1.367X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	20	1.33 X10 ⁻¹ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	3
	20	1.337X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	21	3.10 X10 ⁰ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		1.335X10 ⁻¹ M					M	
	25	1.303X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	30.0	1.30 X10 ⁻¹ M	CB	VELOCITY OF SOUND	SHIG	65022	T	3
	30	1.318X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	35	1.342X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	40	1.363X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	40.0	1.36 X10 ⁻¹ M	BB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
	45	1.381X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	50	1.434X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	55	1.463X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
3. E-2 M NA CL	21	2.80 X10 ⁰ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		1.205X10 ⁻¹ M					M	
1. E-1 M NA CL	21	2.37 X10 ⁰ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		1.020X10 ⁻¹ M					M	
3. E-1 M NA CL	21	1.60 X10 ⁰ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		6.890X10 ⁻² M					M	
1. E 0 M NA CL	21	8.0 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		3.44 X10 ⁻² M					M	
COMPOUND NO = 3 MOL WGT - 260.3 SODIUM DECYL 1 SULFATE								
	0	3.88 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	5	3.64 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	10	3.46 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	D
	10	3.50 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	D
	15	3.41 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	15	3.39 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	20	3.35 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	20	3.31 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	25	3.32 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	25.0	3.26 X10 ⁻² M	BA	EQUIV CONDUCTNCE GRAPH	MYSE KAPA	61005	T	1
	25.0	3.35 X10 ⁻² M	BA	SPECFC CONDUCTNCE GRAPH	MYSE KAPA	61005	T	1
	25	3.27 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	25.0	3.32 X10 ⁻² M	BA	SPECFC CONDUCTNCE EQUATNS	MUKE KAPA	66002	T	1
	30	3.31 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	30	3.26 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	35	3.27 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	35	3.35 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	40	3.32 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	40	3.41 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	45	3.38 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	D
	45	3.49 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	D
	50	3.47 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	D
	50	3.64 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	D
	55	3.59 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	D
	55	3.78 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	D
	60	3.73 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	65	3.88 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
1.00 E 2 A DEUTERIUM OXIDE	25.0	3.25 X10 ⁻² M	BA	SPECFC CONDUCTNCE EQUATNS	MUKE KAPA	66002	T	2
1.00 E-2 M NA CL	25.0	3.02 X10 ⁻² M	BB	SPECFC CONDUCTNCE GRAPH	MYSE KAPA	61005	L	3
1.00 E-1 M NA CL	25.0	1.51 X10 ⁻² M	BB	SPECFC CONDUCTNCE GRAPH	MYSE KAPA	61005	L	3
1.0 E 0 M NA CL	25.0	2.77 X10 ⁻³ M	BB	SPECFC CONDUCTNCE GRAPH	MYSE MYSE	65018	T	3
1.25 E 1 C 0001	RM	2.02 X10 ⁻² M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	3
2.6 E 1 C 0001	RM	1.56 X10 ⁻² M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	3
5.0 E 1 C 0001	RM	1.08 X10 ⁻² M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	3
5.00 E 1 C 0004	25	3.03 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
5.00 E 1 C 0004	30	3.09 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
5.00 E 1 C 0004	35	3.18 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
5.00 E 1 C 0004	40	3.31 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
5.00 E 1 C 0004	45	3.47 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00 E 1 C 0004	50	3.66 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00 E 1 C 0004	55	3.87 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00 E 1 C 0004	60	4.16 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00 E 1 C 0004	65	4.51 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00 E 1 C 0004	70	4.90 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00 E 1 C 0004	75	5.35 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol %; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations - Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 4 MOL WGT -		316.4	SODIUM TETRADECYL 1 SULFATE					
	25	2.05 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	30	2.08 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	35	2.13 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	40	2.21 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	1
	40	2.21 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	45	2.31 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	50	2.43 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	55	2.58 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	60	2.77 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	65	2.99 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	70	3.22 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	75	3.50 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5. E O H DIOXANE	40	2.4 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.0 E 1 H DIOXANE	40	2.9 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.5 E 1 H DIOXANE	40	3.8 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
2.0 E 1 H DIOXANE	40	5.2 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
2.5 E 1 H DIOXANE	40	7.5 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
3.0 E 1 H DIOXANE	40	1.28 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
3.6 E 1 H DIOXANE	40	1.77 X10 ⁻² M	DD	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
COMPOUND NO = 5 MOL WGT -		344.4	SODIUM HEXADECYL 1 SULFATE					
	40	5.2 X10 ⁻⁴ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
	40.0	5.8 X10 ⁻⁴ M	BC	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
5. E O H DIOXANE	40	1.27 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.0 E 1 H DIOXANE	40	2.0 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.5 E 1 H DIOXANE	40	2.8 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
2.0 E 1 H DIOXANE	40	3.54 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
2.5 E 1 H DIOXANE	40	4.3 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
3.0 E 1 H DIOXANE	40	5.0 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
COMPOUND NO = 15 MOL WGT -		260.3	SODIUM DECYL 2 SULFATE					
	10	5.15 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	15	4.92 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	20	4.70 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	25	4.56 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	30	4.52 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	35	4.50 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	40	4.50 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	45	4.52 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	50	4.57 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	55	4.63 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	60	4.79 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	65	4.95 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
COMPOUND NO = 16 MOL WGT -		316.4	SODIUM TETRADECYL 2 SULFATE					
	25	3.27 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	30	3.28 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	35	3.31 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	40	3.38 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	45	3.48 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	50	3.64 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	55	3.83 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	60	4.04 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	65	4.29 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	70	4.60 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	75	5.00 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
COMPOUND NO = 17 MOL WGT -		316.4	SODIUM TETRADECYL 4 SULFATE					
	25	5.12 X10 ⁻³ M	CA	AVER SP EQUIV COND	FLOC	61007	L	3
	30	5.05 X10 ⁻³ M	CA	AVER SP EQUIV COND	FLOC	61007	L	3
	35	5.04 X10 ⁻³ M	CA	AVER SP EQUIV COND	FLOC	61007	L	3
	40.0	5.15 X10 ⁻³ M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
	40	5.12 X10 ⁻³ M	CA	AVER SP EQUIV COND	FLOC	61007	L	3
	45	5.23 X10 ⁻³ M	CA	AVER SP EQUIV COND	FLOC	61007	L	3
	50	5.38 X10 ⁻³ M	CA	AVER SP EQUIV COND	FLOC	61007	L	3
	55	5.57 X10 ⁻³ M	CA	AVER SP EQUIV COND	FLOC	61007	L	3
	60	5.85 X10 ⁻³ M	CA	AVER SP EQUIV COND	FLOC	61007	L	3
	65	6.21 X10 ⁻³ M	CA	AVER SP EQUIV COND	FLOC	61007	L	3
	70	6.62 X10 ⁻³ M	CA	AVER SP EQUIV COND	FLOC	61007	L	3
	75	7.11 X10 ⁻³ M	CA	AVER SP EQUIV COND	FLOC	61007	L	3
COMPOUND NO = 18 MOL WGT -		292.4	OCTYL BETA D GLUCOSIDE					
	25	2.5 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T	3

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molar; Y - atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 19 MOL WGT -	320.4	DECYL BETA D GLUCOSIDE						
	25	2.2 X10-3 M	BB	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T	3
COMPOUND NO = 20 MOL WGT -	348.5	DODECYL BETA D GLUCOSIDE						
	25	1.9 X10-4 M	BB	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T	3
COMPOUND NO = 21 MOL WGT -	229.4	DIMETHYL DODECYL AMINE OXIDE						
	27.0	2.10 X10-3 M	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T	3
COMPOUND NO = 22 MOL WGT -	265.9	DIMETHYL DODECYL AMINE OXIDE HYDROCHLORIDE						
1. E-3 M H CL	27	1.9 X10-1 D	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T	3
		7.14 X10-3 M						M
1. E-2 M H CL	27	1.8 X10-1 D	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T	3
		6.76 X10-3 M						M
COMPOUND NO = 23 MOL WGT -	373.2	SILVER DODECYL 1 SULFATE						
	35	7.3 X10-3 M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	2
	55	8.4 X10-3 M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	3
1. E-2 M AG NO3	35	4.7 X10-3 M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	3
1. E-2 M NA NO3	35	5.4 X10-3 M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	3
COMPOUND NO = 24 MOL WGT -	570.8	CALCIUM DODECYL 1 SULFATE						
	70	3.4 X10-3 N	BB	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	3
1. E-2 M NA NO3	70	3.3 X10-3 N	BB	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	3
COMPOUND NO = 38 MOL WGT -	221.8	DODECYL AMMONIUM CHLORIDE						
	15	1.56 X10-2 M	BB	SPECFC CONDUCTNCE GRAPH	EGGE HARW	51006	T	3
	20	1.50 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	2
	25	1.46 X10-2 M	BA	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	P	1
	25	1.47 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	1
	27	1.50 X10-2 M	BB	SPECFC CONDUCTNCE GRAPH	EGGE HARW	51006	T	3
	30	1.47 X10-2 M	BB	DENSITY	CART ANAC	60005	K	1
	30	1.47 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48020	K	1
	30	1.50 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	EGGE HARW	51006	T	1
	30	1.48 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	1
	30	1.48 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	GK	1
	40	1.50 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	2
	50	1.58 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	3
	60	1.71 X10-2 M	BB	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	3
	30	1.61 X10-2 N	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T	3
	30	1.30 X10-2 N	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T	3
	30	1.36 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	1.30 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	1.13 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	9.4 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	1.77 X10-2 N	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T	3
	30	1.43 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48020	K	3
	30	1.26 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48020	K	3
	30	1.39 X10-2 M	RR	RQIVT CONDUCTNCE GRAPH	RALS EGGE	49008	C	3
	30	1.27 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	1.15 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	9.2 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	1.20 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	1.02 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	7.3 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	4.9 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	25	1.77 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	P	3
	25	2.37 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T	3
	30	1.64 X10-2 N	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T	3
	30	1.42 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	C	3
	30	1.39 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	1.30 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	1.13 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	8.9 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	6.7 X10-3 M	BB	DENSITY	CART ANAC	60005	K	3
	30	1.37 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	1.23 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	9.9 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	7.6 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	30	4.6 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
	25	9.2 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T	3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
1.619E 1 H	25	1.04 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T	3
5.66 E 0 H	25	7.9 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T	3
7.88 E 0 H	25	7.4 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T	3
COMPOUND NO = 41 MOL WGT - 263.9 DODECYL TRIMETHYL AMMONIUM CHLORIDE								
5. E 2 Y	25.0	2.03 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
1. E 3 Y	25.0	2.09 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
1.5 E 3 Y	25.0	2.11 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
2. E 3 Y	25.0	2.04 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
3. E 3 Y	25.0	1.98 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
4. E 3 Y	25.0	1.87 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
5. E 3 Y	25.0	1.83 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
5. E 3 Y	25.0	1.81 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
COMPOUND NO = 42 MOL WGT - 292.0 TETRADECYL TRIMETHYL AMMONIUM CHLORIDE								
	25	4.47 X10 ⁻³ M	BB	UNSPECIFIED CONDUCTANCE	HOYE MARM	61002	T	3
COMPOUND NO = 44 MOL WGT - 182.3 POTASSIUM OCTANOATE								
3.3 E-2 W	15	3.72 X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	WHIT BENS	59012	E	3
3.3 E-2 W	20	3.55 X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	WHIT BENS	59012	E	3
3.3 E-2 W	25	3.45 X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	WHIT BENS	59012	E	3
3.3 E-2 W	30	3.30 X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	WHIT BENS	59012	E	3
3.3 E-2 W	35	3.13 X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	WHIT BENS	59012	E	3
3.3 E-2 W	40	3.05 X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	WHIT BENS	59012	E	3
3.3 E-2 W	45	3.10 X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	WHIT BENS	59012	E	3
3.3 E-2 W	50	3.18 X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	WHIT BENS	60012	E	3
3.3 E-2 W	55	3.31 X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	WHIT BENS	59012	E	3
COMPOUND NO = 45 MOL WGT - 334.4 SODIUM P 1 METHYL DECYL BENZENE SULFONATE								
	35	2.53 X10 ⁻³ W	BA	SPECFC CONDUCTNCE GRAPH	GRS	57012	T	2
COMPOUND NO = 46 MOL WGT - 362.4 SODIUM P 1 METHYL DODECYL BENZENE SULFONATE								
	35	7.2 X10 ⁻⁴ W	CA	SPECFC CONDUCTNCE GRAPH	GRS	57012	T	3
COMPOUND NO = 47 MOL WGT - 390.5 SODIUM P 1 METHYL TETRADECYL BENZENE SULFONATE								
	40	3.1 X10 ⁻⁴ W	BB	SPECFC CONDUCTNCE GRAPH	GRS	57012	T	3
COMPOUND NO = 49 MOL WGT - 292.3 SODIUM P OCTYL BENZENE SULFONATE								
	35	1.47 X10 ⁻² W	CA	SPECFC CONDUCTNCE GRAPH	GRS	57012	T	3
COMPOUND NO = 50 MOL WGT - 320.4 SODIUM P DECYL BENZENE SULFONATE								
	50	1.47 X10 ⁻² W	CA	SPECFC CONDUCTNCE GRAPH	GRS	57012	T	3
COMPOUND NO = 51 MOL WGT - 348.4 SODIUM P DODECYL BENZENE SULFONATE								
	60	1.20 X10 ⁻³ W	CA	SPECFC CONDUCTNCE GRAPH	GRS	57012	T	3
COMPOUND NO = 66 MOL WGT - 232.2 SODIUM OCTYL 2 SULFATE								
	40.0	1.80 X10 ⁻¹ M	BB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
COMPOUND NO = 68 MOL WGT - 302.3 SODIUM TRIDECYL 2 SULFATE								
	40.0	6.50 X10 ⁻³ M	BB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
COMPOUND NO = 72 MOL WGT - 274.3 SODIUM UNDECYL 3 SULFATE								
	40.0	2.89 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
COMPOUND NO = 73 MOL WGT - 316.4 SODIUM TETRADECYL 3 SULFATE								
	40.0	4.30 X10 ⁻³ M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
COMPOUND NO = 75 MOL WGT - 344.4 SODIUM HEXADECYL 4 SULFATE								
	40.0	1.72 X10 ⁻³ M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
COMPOUND NO = 78 MOL WGT - 330.4 SODIUM PENTADECYL 5 SULFATE								
	40.0	3.40 X10 ⁻³ M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations—Continued

Additives		Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO =	80 MOL WGT -	274.3	SODIUM UNDECYL 6 SULFATE						
		40.0 8.3 X10-2 M	CB	SPECFC	CONDCTNCE GRAPH	EVAN	56006	T	3
COMPOUND NO =	81 MOL WGT -	344.4	SODIUM HEXADECYL 6 SULFATE						
		40.0 2.35 X10-3 M	CB	SPECFC	CONDCTNCE GRAPH	EVAN	56006	T	3
COMPOUND NO =	83 MOL WGT -	302.3	SODIUM TRIDECYL 7 SULFATE						
		40.0 1.93 X10-2 M	CB	SPECFC	CONDCTNCE GRAPH	EVAN	56006	T	3
COMPOUND NO =	85 MOL WGT -	330.4	SODIUM PENTADECYL 8 SULFATE						
		40.0 6.65 X10-3 M	CB	SPECFC	CONDCTNCE GRAPH	EVAN	56006	T	3
COMPOUND NO =	86 MOL WGT -	344.4	SODIUM HEXADECYL 8 SULFATE						
		40.0 4.25 X10-3 M	CB	SPECFC	CONDCTNCE GRAPH	EVAN	56006	T	3
COMPOUND NO =	95 MOL WGT -	280.3	DECYL TRIMETHYL AMMONIUM BROMIDE						
		25 6.46 X10-2 W	BA	SPECFC	CONDCTNCE GRAPH	TUDD ALEX	62035	T	2
5.00 E 2 Y	PRESSURE	25 6.70 X10-2 W	BA	SPECFC	CONDCTNCE GRAPH	TUDD ALEX	62035	T	3
1.000E 3 Y	PRESSURE	25 6.70 X10-2 W	BA	SPECFC	CONDCTNCE GRAPH	TUDD ALEX	62035	T	3
1.500E 3 Y	PRESSURE	25 6.50 X10-2 W	BA	SPECFC	CONDCTNCE GRAPH	TUDD ALEX	62035	T	3
3.000E 3 Y	PRESSURE	25 5.56 X10-2 W	BA	SPECFC	CONDCTNCE GRAPH	TUDD ALEX	62035	T	3
COMPOUND NO =	97 MOL WGT -	308.4	DODECYL TRIMETHYL AMMONIUM BROMIDE						
		20 1.59 X10-2 M	BB	INTERFACIAL TENSION LOGM		HAYD PHIL	58012	L	D
		25 4.48 X10-1 D	BB	TURBIDITY PLT LITE SCATR		ANAC JOHN	64017	K	D
		1.452X10-2 M						M	
		25 1.44 X10-2 N	BA	EQUIV CONDCTNCE GRAPH		VOEK TART	55006	T	D
		25 1.564X10-2 W	BA	SPECFC CONDCTNCE GRAPH		TUDD ALEX	62035	T	D
		25 1.42 X10-2 M	BA	EQUIV CONDCTNCE GRAPH		BRUN HOLT	61016	T	D
1. E-1 W	PHENOL	25 4.62 X10-3 W	BA	SPECFC CONDCTNCE GRAPH		TUDD ALEX	62035	T	3
1.00 E-1 M	NA BR	25 1.38 X10-1 D	BB	TURBIDITY PLT LITE SCATR		ANAC JOHN	64017	K	3
		4.474X10-3 M						M	
5.02 E-1 M	NA BR	25 6.2 X10-2 D	BB	TURBIDITY PLT LITE SCATR		ANAC JOHN	64017	K	3
		2.01 X10-3 M						M	
5.00 E 2 Y	PRESSURE	25 1.61 X10-2 W	BA	SPECFC CONDCTNCE GRAPH		TUDD ALEX	62035	T	3
1.000E 3 Y	PRESSURE	25 1.616X10-2 W	BA	SPECFC CONDCTNCE GRAPH		TUDD ALEX	62035	T	3
1.500E 3 Y	PRESSURE	25 1.56 X10-2 W	BA	SPECFC CONDCTNCE GRAPH		TUDD ALEX	62035	T	3
3.000E 3 Y	PRESSURE	25 1.272X10-2 W	BA	SPECFC CONDCTNCE GRAPH		TUDD ALEX	62035	T	3
5. E-1 M	UREA	25 1.56 X10-2 M	BA	EQUIV CONDCTNCE GRAPH		BRUN HOLT	61016	T	3
2.0 E 0 M	UREA	25 2.04 X10-2 M	BA	EQUIV CONDCTNCE GRAPH		BRUN HOLT	61016	T	3
6.0 E 0 M	UREA	25 4.54 X10-2 M	BA	EQUIV CONDCTNCE GRAPH		BRUN HOLT	61016	T	3
5.00 E 2 Y	PRESSURE	25 5.00 X10-3 W	BA	SPECFC CONDCTNCE GRAPH		TUDD ALEX	62035	T	3
1. E-1 W	PHENOL								
1.000E 3 Y	PRESSURE	25 5.03 X10-3 W	BA	SPECFC CONDCTNCE GRAPH		TUDD ALEX	62035	T	3
1. E-1 W	PHENOL								
1.500E 3 Y	PRESSURE	25 4.88 X10-3 W	BA	SPECFC CONDCTNCE GRAPH		TUDD ALEX	62035	T	3
1. E-1 W	PHENOL								
3.000E 3 Y	PRESSURE	25 3.88 X10-3 W	BA	SPECFC CONDCTNCE GRAPH		TUDD ALEX	62035	T	3
1. E-1 W	PHENOL								
COMPOUND NO =	99 MOL WGT -	364.5	HEXADECYL TRIMETHYLAMMONIUM BROMIDE						
		25 9.20 X10-4 W	BA	SPECFC CONDCTNCE GRAPH		CZER	66030	T	2
		35 9.5 X10-4 M	BB	EQUIV CONDCTNCE GRAPH		HART COLL	36001	P	D
		35 9.8 X10-4 M	BB	SPECFC CONDCTNCE GRAPH		HART COLL	36001	P	D
		35 1.020X10-3 W	BA	SPECFC CONDCTNCE GRAPH		CZER	66030	T	D
		45 1.155X10-3 W	BA	SPECFC CONDCTNCE GRAPH		CZER	66030	T	3
		55 1.320X10-3 W	BA	SPECFC CONDCTNCE GRAPH		CZER	66030	T	3
COMPOUND NO =	103 MOL WGT -	234.3	HEXYL /OXYETHYLENE/ 3 ALCOHOL						
	HOMOGENEOUS HEAD GROUP								
		15 1.07 X10-3 M	BB	SURFACE TENSION LOG PLOT		CORK GOOD	64003	T	3
		25 1.00 X10-1 M	BB	SURFACE TENSION LOG PLOT		CORK GOOD	64003	T	3
		35 7.8 X10-2 M	BB	SURFACE TENSION LOG PLOT		CORK GOOD	64003	T	3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
COMPOUND NO = 104 MOL WGT -	262.4	OCTYL /OXYETHYLENE/	3 ALCOHOL				
HOMOGENEOUS HEAD GROUP							
	15	9.3 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	25	7.5 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
COMPOUND NO = 105 MOL WGT -	394.6	OCTYL /OXYETHYLENE/	6 ALCOHOL				
HOMOGENEOUS HEAD GROUP							
	15	1.19 X10-2 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	25	9.9 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	35	7.7 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
COMPOUND NO = 106 MOL WGT -	526.7	OCTYL /OXYETHYLENE/	9 ALCOHOL				
HOMOGENEOUS HEAD GROUP							
	15	1.6 X10-2 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	25	1.3 X10-2 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	35	1.1 X10-2 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
COMPOUND NO = 107 MOL WGT -	290.4	DECYL /OXYETHYLENE/	3 ALCOHOL				
HOMOGENEOUS HEAD GROUP							
	15	7.3 X10-4 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	25	6.0 X10-4 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	35	5.6 X10-4 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
COMPOUND NO = 108 MOL WGT -	422.6	DECYL /OXYETHYLENE/	6 ALCOHOL				
HOMOGENEOUS HEAD GROUP							
	15	1.14 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	25	9.0 X10-4 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	35	6.6 X10-4 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
COMPOUND NO = 109 MOL WGT -	554.8	DECYL /OXYETHYLENE/	9 ALCOHOL				
HOMOGENEOUS HEAD GROUP							
	15	1.4 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	25	1.3 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	35	1.1 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
COMPOUND NO = 110 MOL WGT -	450.7	DODECYL /OXYETHYLENE/	6 ALCOHOL				
HOMOGENEOUS HEAD GROUP							
	15	1.08 X10-4 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	25	8.7 X10-5 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
	35	7.2 X10-5 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T 3
COMPOUND NO = 111 MOL WGT -	272.3	LITHIUM DODECYL 1 SULFATE					
	25	8.77 X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	MYSE PRIN	59002	TL 2
	25	8.93 X10-3 M	BA	SPECFC CONDUCTNCE GRAPH	MYSE PRIN	59002	TL 2
COMPOUND NO = 112 MOL WGT -	339.5	TETRAMETHYL AMMONIUM DODECYL 1 SULFATE					
	25	5.41 X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	MYSE PRIN	59002	TL 2
	25	5.52 X10-3 M	BA	SPECFC CONDUCTNCE GRAPH	MYSE PRIN	59002	TL 2
COMPOUND NO = 179 MOL WGT -	272.3	SODIUM DODECANE 1-SULFONATE					
	25	9.8 X10-3 M	AB	SURFACE TENSION LOG PLOT	BUJA GODD	65007	L 3
	40	9.7 X10-3 M	AB	SURFACE TENSION LOG PLOT	BUJA GODD	65007	L 3
COMPOUND NO = 181 MOL WGT -	216.2	SODIUM OCTYL 1-SULFONATE					
	23	1.55 X10-1 N	CE	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T 3
	25	1.55 X10-1 M	CC	REFRACTIVE INDEX	KLEV	48005	T 3
	40	1.62 X10-1 M	CC	REFRACTIVE INDEX	KLEV	48005	T 3
COMPOUND NO = 182 MOL WGT -	244.3	SODIUM DECYL 1-SULFONATE					
	30	1.066X10-0 D	BA	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T 2
		4.363X10-2 M					M
1.0 E-1 M NA CL	30	5.364X10-1 D	BA	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T 2
		2.195X10-2 M					M

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 189 MOL WGT -	308.4	ALPHA	SULFOMYRISTIC ACID					
	25 5.2	X10-3 M	CC	EQUIV CONDUCTNCE GRAPH	WEIL STIR	56008	K	3
COMPOUND NO = 203 MOL WGT -	235.8	DECYL TRIMETHYL AMMONIUM CHLORIDE						
3.33 E 1 C 0041	25 6.11	X10-2 M	BB	UNSPECIFIED CONDUCTANCE	HOYE MARM	61002	T	3
	25 1.96	X10-2 M	BB	UNSPEC SOLUBLZTN SDN 4	HOYE MARM	61002	T	3
COMPOUND NO = 208 MOL WGT -	294.4	P-T-OCTYL BENZENE /OXYETHYLENE/2 ALCOHOL						
HOMOGENEOUS HEAD GROUP	25 1.32	X10-4 M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	3
COMPOUND NO = 209 MOL WGT -	338.5	P-T-OCTYL BENZENE /OXYETHYLENE/3 ALCOHOL						
HOMOGENEOUS HEAD GROUP	25 9.7	X10-5 M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	3
COMPOUND NO = 210 MOL WGT -	382.5	P-T-OCTYL BENZENE /OXYETHYLENE/4 ALCOHOL						
HOMOGENEOUS HEAD GROUP	25 1.25	X10-4 M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	3
COMPOUND NO = 211 MOL WGT -	426.6	P-T-OCTYL BENZENE /OXYETHYLENE/5 ALCOHOL						
HOMOGENEOUS HEAD GROUP	25 1.54	X10-4 M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	3
COMPOUND NO = 212 MOL WGT	470.7	P T OCTYL BENZENE /OXYETHYLENE/6 ALCOHOL						
HOMOGENEOUS HEAD GROUP	25 2.05	X10-4 M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	3
COMPOUND NO = 213 MOL WGT -	514.7	P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL						
HOMOGENEOUS HEAD GROUP	25 2.46	X10-4 M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	3
COMPOUND NO = 214 MOL WGT -	558.8	P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL						
HOMOGENEOUS HEAD GROUP	25 2.80	X10-4 M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	3
COMPOUND NO = 215 MOL WGT -	602.8	P-T-OCTYL BENZENE /OXYETHYLENE/9 ALCOHOL						
HOMOGENEOUS HEAD GROUP	25 3.35	X10-4 M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	3
COMPOUND NO = 216 MOL WGT -	646.9	P-T-OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL						
HOMOGENEOUS HEAD GROUP	25 3.35	X10-4 M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	3
COMPOUND NO = 254 MOL WGT -	187.3	NONYL DIMETHYL AMINE OXIDE						
	25 5.4	X10-2 M	BC	HEAT OF DILUTION	BENJ	64016	L	3
COMPOUND NO = 255 MOL WGT -	354.6	POTASSIUM 9,10 DIHYDROXY STEARATE						
1. E-3 M K OH	60 7.5	X10-3 M	BC	EQUIV CONDUCTNCE GRAPH	GREG TART	48012	T	3
COMPOUND NO = 258 MOL WGT -	360.3	SODIUM DI-N-AMYL SULFOSUCCINATE						
	25 5.3	X10-2 M	BC	SURFACE TENSION LOG PLOT	WILL DIXO	57009	AL	3
COMPOUND NO = 259 MOL WGT -	388.4	SODIUM DI-N-HEXYL SULFOSUCCINATE						
	25 1.24	X10-2 M	BC	SURFACE TENSION LOG PLOT	WILL DIXO	57009	TL	3
COMPOUND NO = 260 MOL WGT -	444.5	SODIUM DI-N-OCTYL SULFOSUCCINATE						
	25 6.8	X10-4 M	BC	SURFACE TENSION LOG PLOT	WILL DIXO	57009	TL	3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 262 MOL WGT -	444.5	SODIUM DI-2-ETHYL-HEXYL SULFOSUCCINATE						
	25	2.5 X10-3 M	BC	SURFACE TENSION LOG PLOT	WILL DIXO	57009	TL	3
COMPOUND NO = 270 MOL WGT -	348.1	OCTADECYL TRIMETHYLAMMONIUM CHLORIDE						
4.74 E 0 H METHANOL	25	4.00 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	GRIE KRAU	48010	P	3
COMPOUND NO = 272 MOL WGT -	284.3	TRI-ISOPROPYL BENZENE SULFONIC ACID						
	50	5.5 X10-2 M	FB	EQUIV CONDUCTNCE GRAPH	SHUC LING	49004	T	3
COMPOUND NO = 273 MOL WGT -	222.3	SODIUM DODECANOATE						
	25	2.44 X10-2 M	DB	SPECFC CONDUCTNCE GRAPH	CAMP LAKS	65024	T	3
1.1 E 1 PH OF SOLUTION	24	2.3 X10-2 M	BC	SURFACE TENSION LOG PLOT	HARV	56018	T	3
1.1 E 1 PH OF SOLUTION	30	2.25 X10-2 M	BC	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	3
COMPOUND NO = 274 MOL WGT -	340.0	HEXADECYL PYRIDINIUM CHLORIDE						
	25	9.0 X10-4 M	BB	POTOMTR SOLUBLZTN AZBZ	HART	38001	P	3
1.00 E 2 E NITROBENZENE	80	2.36 X10-3 M	BC	SPECFC CONDUCTNCE GRAPH	HART	36002	P	3
	25	5.8 X10-4 M	BA	EQUIV CONDUCTNCE GRAPH	GRIE KRAU	49018	T	3
COMPOUND NO = 278 MOL WGT -	283.9	DODECYL PYRIDINIUM CHLORIDE						
	25	1.47 X10-2 M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T	3
COMPOUND NO = 279 MOL WGT -	340.0	DODECYL BENZYL DIMETHYLAMMONIUM CHLORIDE						
	25.0	7.8 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
5. E 2 Y PRESSURE	25.0	8.25 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
1. E 3 Y PRESSURE	25.0	8.5 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
2. E 3 Y PRESSURE	25.0	8.2 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
3. E 3 Y PRESSURE	25.0	7.5 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
4. E 3 Y PRESSURE	25.0	7.1 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
5. E 3 Y PRESSURE	25.0	6.8 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
COMPOUND NO = 287 MOL WGT -	365.6	OCTYL TRIMETHYLAMMONIUM OCTANE SULFONATE						
	25	2.016X10-2 M	CA	SPECFC CONDUCTNCE GRAPH	TART LING	43004	T	3
COMPOUND NO = 288 MOL WGT -	421.7	DECYL TRIMETHYLAMMONIUM DECANESULFONATE						
	25	1.36 X10-3 M	BC	METHOD NOT CITED	CORK GOOD	66014	T	3
	40	1.40 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	TART LING	43004	P	3
COMPOUND NO = 290 MOL WGT -	328.3	DODECYL PYRIDINIUM BROMIDE						
	5	1.15 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3
	10	1.12 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	2
	15	1.10 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	2
	20	1.12 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	2
	25	1.14 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	1
	25	1.13 X10-2 M	CA	SPECFC CONDUCTNCE GRAPH	BENT SPAR	66038	T	1
	30	1.18 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	2
	35	1.22 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	2
	40	1.28 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3
	45	1.35 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3
	50	1.40 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3
	55	1.48 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3
	60	1.54 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3
	65	1.63 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3
	70	1.72 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3
2. E-2 M K BR	25	7.32 X10-3 M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T	3
4. E-2 M K BR	25	4.88 X10-3 M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T	3
6. E-2 M K BR	25	3.96 X10-3 M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T	3
8. E-2 M K BR	25	3.36 X10-3 M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T	3
6. E-2 M LI BR	25	3.96 X10-3 M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T	3
6. E-2 M RB BR	25	3.35 X10-3 M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T	3
COMPOUND NO = 295 MOL WGT -	246.2	SODIUM NONYL 1-SULFATE						
	21	1.59 X10 0 D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		6.458X10-2 M						
3. E-2 M NA CL	21	1.30 X10 0 D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		5.280X10-2 M						
1. E-1 M NA CL	21	1.00 X10 0 D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		4.061X10-2 M						

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations—Continued

Additives			Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
3.	E-1 M	NA CL	21	6.3 X10 ⁻¹ D 2.55 X10 ⁻² M	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
COMPOUND NO = 298 MOL WGT -			250.3	SODIUM TETRADECANOATE						
			25	6.9 X10 ⁻³ M	DB	SPECFC CONDUCTNCE GRAPH	CAMP LAKS	65024	T	3
			35	6.95 X10 ⁻³ M	DB	SPECFC CONDUCTNCE GRAPH	CAMP LAKS	65024	T	3
COMPOUND NO = 299 MOL WGT -			194.2	SODIUM DECANOATE						
			25	9.40 X10 ⁻² M	DB	SPECFC CONDUCTNCE GRAPH	CAMP LAKS	65024	T	3
			35	9.80 X10 ⁻² M	DB	SPECFC CONDUCTNCE GRAPH	CAMP LAKS	65024	T	3
COMPOUND NO = 301 MOL WGT -			348.4	SODIUM 3-N-DODECYL BENZENE SULFONATE						
			25	1.46 X10 ⁻³ M	FA	SPECFC CONDUCTNCE GRAPH	LU DL	56005	T	3
COMPOUND NO = 302 MOL WGT -			348.4	SODIUM 4-N-DODECYL BENZENE SULFONATE						
			25	1.59 X10 ⁻³ M	FA	SPECFC CONDUCTNCE GRAPH	LU DL	56005	T	3
COMPOUND NO = 311 MOL WGT -			274.3	SODIUM UNDECYL 1-SULFATE						
			21	4.4 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
				1.60 X10 ⁻² M					M	
3.	E-2 M	NA CL	21	2.65 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
				9.660X10 ⁻³ M					M	
1.	E-1 M	NA CL	21	1.49 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
				5.432X10 ⁻³ M					M	
3.	E-1 M	NA CL	21	8.5 X10 ⁻² D	BC	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
				3.09 X10 ⁻³ M					M	
COMPOUND NO = 330 MOL WGT -			550.9	HEXADECYL/OXYETHYLENE/7 ALCOHOL HOMOGENEOUS HEAD GROUP						
			25	1.74 X10 ⁻⁶ M	BC	SURFACE TENSION LOG PLOT	ELWO MACF	62027	T	3
COMPOUND NO = 331 MOL WGT -			639.0	HEXADECYL/OXYETHYLENE/9 ALCOHOL HOMOGENEOUS HEAD GROUP						
			25	2.09 X10 ⁻⁶ M	BC	SURFACE TENSION LOG PLOT	ELWO MACF	62027	T	3
COMPOUND NO = 332 MOL WGT -			771.2	HEXADECYL/OXYETHYLENE/12 ALCOHOL HOMOGENEOUS HEAD GROUP						
			25	2.34 X10 ⁻⁶ M	BC	SURFACE TENSION LOG PLOT	ELWO MACF	62027	T	3
COMPOUND NO = 333 MOL WGT -			903.4	HEXADECYL/OXYETHYLENE/15 ALCOHOL HOMOGENEOUS HEAD GROUP						
			25	3.09 X10 ⁻⁶ M	BC	SURFACE TENSION LOG PLOT	ELWO MACF	62027	T	3
COMPOUND NO = 334 MOL WGT -			1,167.8	HEXADECYL/OXYETHYLENE/21 ALCOHOL HOMOGENEOUS HEAD GROUP						
			25	3.89 X10 ⁻⁶ M	BC	SURFACE TENSION LOG PLOT	ELWO MACF	62027	T	3
COMPOUND NO = 340 MOL WGT -			410.8	MAGNESIUM OCTANE SULFONATE						
			23	1.10 X10 ⁻¹ N	CB	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T	3
COMPOUND NO = 341 MOL WGT -			466.9	MAGNESIUM DECANE SULFONATE						
			60	2.0 X10 ⁻² N	CC	SPECFC CONDUCTNCE GRAPH	LELO TART	51003	L	3
COMPOUND NO = 342 MOL WGT -			523.1	MAGNESIUM DODECANE SULFONATE						
			60	3.6 X10 ⁻³ N	CB	SPECFC CONDUCTNCE GRAPH	LELO TART	51003	L	3
COMPOUND NO = 346 MOL WGT -			437.8	DECYL TRIMETHYLAMMONIUM DECYL SULFATE						
			25	4.6 X10 ⁻⁴ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	63014	L	3
1.00 E 2 I	NA BR		25	4.6 X10 ⁻⁴ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	63014	L	3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations - Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 347 MOL WGT - 1.00 E 2 I NA BR	25	381.6 7.5 X10-3 M	OCTYL	TRIMETHYLAMMONIUM OCTYL SULFATE	CORK GOOD	65005	T	3
COMPOUND NO = 348 MOL WGT - N-OXIDE /C7F15CH2N/CH3/20/	25	443.2 4.7 X10-4 M	NN-DIMETHYL	1-1-DIHYDRO-PENTADECAFLUORO OCTYL AMINE	CORK GOOD	65005	T	3
COMPOUND NO = 353 MOL WGT - 1.78 E-1 M K CL 2.65 E-1 M K CL	RM	393.7 5.75 X10-3 M 5.67 X10-3 M 5.67 X10-3 M	OCTYL	TRIMETHYLAMMONIUM DECANE SULFONATE	ANAC ANAC ANAC	53002 53002 53002	T	3
COMPOUND NO = 376 MOL WGT -	24.9 25 25	375.4 5.26 X10-3 M 5.60 X10-3 M 5.70 X10-3 M	DODECYL	PYRIDINIUM IODIDE	MUKE RAY PARR FORD OTTE	66006 60015 66028	T	3
COMPOUND NO = 380 MOL WGT - HOMOGENEOUS HEAD GROUP	20	278.4 9.0 X10-2 M	HEXYL/OXYETHYLENE/4	ALCOHOL	DONB JAN	63021	T	3
COMPOUND NO = 381 MOL WGT - HOMOGENEOUS HEAD GROUP	20	322.5 9.25 X10-2 M	HEXYL/OXYETHYLENE/5	ALCOHOL	DONB JAN	63021	T	3
COMPOUND NO = 385 MOL WGT -	25	437.8 4.3 X10-4 M	OCTYL	TRIMETHYLAMMONIUM DODECYL SULFATE	CORK GOOD	66014	T	3
COMPOUND NO = 393 MOL WGT - HOMOGENEOUS HEAD GROUP	20 30	338.5 7.96 X10-1 M 7.60 X10-1 M	BUTYL/OXYETHYLENE/6	ALCOHOL	ELWO FLOR	64049 64049	T	3
COMPOUND NO = 394 MOL WGT - HOMOGENEOUS HEAD GROUP	20 30	338.5 9.1 X10-1 M 8.8 X10-1 M	I-METHYL	PROPYL/OXYETHYLENE/6 ALCOHOL	ELWO FLOR	64049 64049	T	3
COMPOUND NO = 395 MOL WGT - HOMOGENEOUS HEAD GROUP	20 30	366.6 1.00 X10-1 M 9.3 X10-2 M	2-ETHYL	BUTYL/OXYETHYLENE/6 ALCOHOL	ELWO FLOR	64049 64049	T	3
COMPOUND NO = 396 MOL WGT - HOMOGENEOUS HEAD GROUP	20 30	394.6 2.30 X10-2 M 2.0 X10-2 M	2-PROPYL	PENTYL/OXYETHYLENE/6 ALCOHOL	ELWO FLOR	64049 64049	T	3
COMPOUND NO = 397 MOL WGT - HOMOGENEOUS HEAD GROUP	20 25	422.7 3.10 X10-3 M 2.84 X10-3 M	2-BUTYL	HEXYL/OXYETHYLENE/6 ALCOHOL	ELWO FLOR	64049 64049	T	3
COMPOUND NO = 398 MOL WGT - HOMOGENEOUS HEAD GROUP	20 30	554.9 3.20 X10-3 M 2.79 X10-3 M	2-BUTYL	HEXYL/OXYETHYLENE/9 ALCOHOL	ELWO FLOR	64049 64049	T	3

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molar; Y - atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
COMPOUND NO = 416 MOL WGT -	314.1	PERFLUORO HEXANOIC ACID					
	0	1.09 X10-1 M	BC	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P 3
	18	1.06 X10-1 M	BC	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P 3
COMPOUND NO = 417 MOL WGT -	414.1	PERFLUORO OCTANOIC ACID					
	18	9.8 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P 3
	35	9.3 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P 3
	45	1.02 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P 3
COMPOUND NO = 423 MOL WGT - HOMOGENEOUS HEAD GROUP	174.3	OCTYL/OXYETHYLENE/1 ALCOHOL--OCTYL GLYCOL ETHER					
	25	4.9 X10-3 M	BC	SURFACE TENSION LOG PLOT	SHIN YAMA	59013	T 3
COMPOUND NO = 424 MOL WGT -	204.3	OCTYL ALPHA-GLYCERYL ETHER					
	25	5.8 X10-3 M	BC	SURFACE TENSION LOG PLOT	SHIN YAMA	59013	T 3
COMPOUND NO = 427 MOL WGT -	384.5	HEXADECYL PYRIDINIUM BROMIDE					
	25	5.81 X10-4 M	BA	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P 2
	35	7.5 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	HART COLL	36001	T 3
	35	7.7 X10-4 M	BB	SPECFC CONDUCTNCE GRAPH	HART COLL	36001	P 3
6.4 E O H	25	7.51 X10-4 M	BC	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P 3
1.470E 1 H	25	1.18 X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P 2
1.991E 1 H	25	1.69 X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P 2
2.602E 1 H	25	2.81 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P 3
3.520E 1 H	25	6.01 X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P 2
COMPOUND NO = 449 MOL WGT -	235.9	DODECYLMETHYL AMMONIUM CHLORIDE					
	30	1.46 X10-2 M	BC	EQUIV CONDUCTNCE GRAPH	RALS BROO	49013	T 3
COMPOUND NO = 450 MOL WGT -	249.9	DODECYLDIMETHYL AMMONIUM CHLORIDE					
	30	1.61 X10-2 M	BC	EQUIV CONDUCTNCE GRAPH	RALS BROO	49013	T 3
COMPOUND NO = 456 MOL WGT -	452.2	POTASSIUM PERFLUORO OCTANOATE					
	25	2.88 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T 3
	30	2.74 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T 3
	40	2.65 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T 3
	55	2.76 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T 3
	70	3.07 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T 3
	85	3.54 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T 3
9.4 E-3 W	30	2.43 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
1.82 E-2 W	30	2.22 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
2.96 E-2 W	30	2.01 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
8.3 E-3 W	40	2.40 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
2.39 E-2 W	40	2.07 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
4.08 E-2 W	40	1.79 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
7.31 E-2 W	40	1.46 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
1.13 E-2 W	55	2.42 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
2.30 E-2 W	55	2.17 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
3.54 E-2 W	55	1.93 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
4.65 E-2 W	55	1.82 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
6.01 E-2 W	55	1.65 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
7.77 E-2 W	55	1.49 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
1.28 E-2 W	70	2.75 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
3.77 E-2 W	70	2.22 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
8.22 E-2 W	70	1.82 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
4.65 E-2 W	85	2.59 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
7.71 E-2 W	85	2.27 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L 3
COMPOUND NO = 458 MOL WGT -	347.3	DECYL PYRIDINIUM IODIDE					
	RM	2.25 X10-2 M	CB	MICELLAR SPECTRAL CHANGE	HARK KRIZ	51010	T 3
COMPOUND NO = 482 MOL WGT -	248.4	DODECYL AMMONIUM NITRATE					
	30	9.9 X10-3 M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K 3
COMPOUND NO = 483 MOL WGT -	306.0	DIOCTYL DIMETHYL AMMONIUM CHLORIDE					
	30	2.83 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48014	K 3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/ D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 491 MOL WGT -	356.5	DODECYL	TROPYLIUM	BISULFATE				
7.8 E 1 H H2 S04	25	2.2 X10-3 M	BC	SURFACE TENSION LOG PLOT	ABUH MYSE	65019	T	3
9.6 E 1 H H2 S04	25	1.25 X10-2 M	BC	SURFACE TENSION LOG PLOT	ABUH MYSE	65019	T	3
9.6 E 1 H H2 S04	25	5.4 X10-3 M	BC	SURFACE TENSION LOG PLOT	ABUH MYSE	65019	T	3
9. E-1 M NA2 S04								
COMPOUND NO = 493 MOL WGT -	306.4	SODIUM P-NONYL	BENZENE	SULFONATE				
	20	4.6 X10-3 M	BB	SURFACE TENSION LOG PLOT	HARR	59001	L	3
COMPOUND NO = 500 MOL WGT -	354.0	DODECYL	TRI/2-HYDROXYETHYL/AMMONIUM	CHLORIDE				
	30	1.38 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49009	K	3
COMPOUND NO = 525 MOL WGT -	316.4	SODIUM TETRADECYL	6-SULFATE					
	60	9.80 X10-3 M		UNSPECIFIED CONDUCTANCE	WINS	48008	L	3
COMPOUND NO = 528 MOL WGT -	358.9	DODECYL	TROPYLIUM	PERCHLORATE				
7.0 E 1 H H CL04	25	8.6 X10-4 M	BC	SURFACE TENSION LOG PLOT	ABUH MYSE	65019	T	3
	30	1.25 X10-3 M	BB	UNSPECIFIED CONDUCTANCE	SATA IWAM	63034	T	3
COMPOUND NO = 568 MOL WGT -	555.1	MAGNESIUM DODECYL	SULFATE					
	30	1.25 X10-3 M	BB	UNSPECIFIED CONDUCTANCE	SATA IWAM	63034	T	3
COMPOUND NO = 572 MOL WGT -	589.7	COBALTOUS DODECYL	SULFATE					
	30	1.23 X10-3 M	BB	UNSPECIFIED CONDUCTANCE	SATA IWAM	63034	T	3
COMPOUND NO = 573 MOL WGT -	594.3	CUPRIC DODECYL	SULFATE					
	30	1.20 X10-3 M	BB	UNSPECIFIED CONDUCTANCE	SATA IWAM	63034	T	3
COMPOUND NO = 575 MOL WGT -	589.5	NICKEL DODECYL	SULFATE					
	30	1.24 X10-3 M	BB	UNSPECIFIED CONDUCTANCE	SATA IWAM	63034	T	3
COMPOUND NO = 587 MOL WGT -	307.5	DECYL DIMETHYLAMMONIOPROPANE	SULFONATE					
	30	1.20 X10-2 M	BB	TURBIDITY FLT LITE SCATR	HERR	66013	T	3
		3.902X10-2 M						M
COMPOUND NO = 588 MOL WGT -	335.6	DODECYL DIMETHYLAMMONIOPROPANE	SULFONATE					
2. E-1 M NA CL	30	1.2 X10-1 D	BC	TURBIDITY FLT LITE SCATR	HERR	66013	T	3
	30	1.0 X10-1 D	BC	METHOD NOT CITED	HERR	66013	G	3
		2.97 X10-3 M						M
1. E 0 M NA CL	30	5.8 X10-2 D	BC	METHOD NOT CITED	HERR	66013	G	3
		1.72 X10-3 M						M
COMPOUND NO = 590 MOL WGT -	299.6	DODECYL DIMETHYLAMMONIOPROPANE	CARBOXYLATE					
	30	1.6 X10-1 D	BC	TURBIDITY FLT LITE SCATR	HERR	66013	T	3
		5.34 X10-3 M						M
COMPOUND NO = 591 MOL WGT -	352.5	DODECYL DIMETHYLPHOSPHONIOPROPANE	SULFONATE					
	30	8.5 X10-2 D	BC	TURBIDITY FLT LITE SCATR	HERR	66013	T	3
		2.41 X10-3 M						M
COMPOUND NO = 593 MOL WGT -	351.6	DIMETHYL DODECYLAMMONIOPROPANE	HYDROXY SULFONATE					
	30	7.0 X10-2 D	BC	METHOD NOT CITED	HERR	66013	T	3
		1.99 X10-3 M						M
COMPOUND NO = 594 MOL WGT -	391.7	DODECYL DIPROPYL AMMONIOPROPANE	SULFONATE					
	30	7.0 X10-2 D	BC	METHOD NOT CITED	HERR	66013	T	3
		1.78 X10-3 M						M
COMPOUND NO = 634 MOL WGT -	304.5	POTASSIUM DODECYL	SULFATE					
	40	7.8 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	MEGU KOND	56020	T	3
COMPOUND NO = 640 MOL WGT -	325.5	HEXYL TRIMETHYLAMMONIUM	HEXANE SULFATE					
	25	1.1 X10-1 M	BC	METHOD NOT CITED	CORK GOOD	66014	T	3
COMPOUND NO = 641 MOL WGT -	353.6	HEXYL TRIMETHYLAMMONIUM	OCTANE SULFATE					
1.00 E 2 I NA BR	25	2.7 X10-2 M	BC	METHOD NOT CITED	CORK GOOD	66014	T	3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Table of Recommended and Selected Critical Micelle Concentrations—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 642 MOL WGT -	409.7	OCTYL TRIMETHYLAMMONIUM DECANE SULFATE						
	25	1.9 X10-3 M	BC	METHOD NOT CITED	CORK GOOD	66014	T	3
COMPOUND NO = 643 MOL WGT -	437.8	DODECYL TRIMETHYLAMMONIUM OCTANE SULFATE						
1.00 E 2 I NA BR	25	4.5 X10-4 M	BC	METHOD NOT CITED	CORK GOOD	66014	T	3
COMPOUND NO = 654 MOL WGT -	374.7	OCTADECYL TRIMETHYLAMMONIUM NITRATE						
5.01 E 0 H METHANOL	25	1.76 X10-4 M	BA	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	2
1.227E 1 H METHANOL	25	3.28 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	3
1.508E 1 H METHANOL	25	4.37 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	3
1.985E 1 H METHANOL	25	5.93 X10-4 M	BA	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	2
2.589E 1 H METHANOL	25	1.10 X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	2
3.463E 1 H METHANOL	25	3.03 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	3
COMPOUND NO = 655 MOL WGT -	368.1	OCTADECYL PYRIDINIUM CHLORIDE						
	25	2.40 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	3
COMPOUND NO = 656 MOL WGT -	394.7	OCTADECYL PYRIDINIUM NITRATE						
2.0 E 1 H METHANOL	25	1.28 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	T	3
	25	5.76 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	3
COMPOUND NO = 657 MOL WGT -	412.6	OCTADECYL PYRIDINIUM BROMIDE						
2.0 E 1 H METHANOL	25	6.10 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	3
COMPOUND NO = 658 MOL WGT -	440.6	OCTADECYL TRIMETHYLAMMONIUM BROMATE						
	25	3.31 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	GRIE KRAU	48010	P	3
COMPOUND NO = 659 MOL WGT -	357.7	OCTADECYL TRIMETHYLAMMONIUM FORMATE						
	25	4.4 X10-4 M	BC	EQUIV CONDUCTNCE GRAPH	GRIE KRAU	48010	T	3
COMPOUND NO = 662 MOL WGT -	482.7	OCTADECYL TRIETHYLAMMONIUM BROMATE						
	25	2.5 X10-4 M	BC	EQUIV CONDUCTNCE GRAPH	MCDO KRAU	51009	T	3
COMPOUND NO = 667 MOL WGT -	713.4	OCTADECYL TRIMETHYLAMMONIUM OXALATE						
9.91 E 0 H ACETONE	25	1.61 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
1.39 E 1 H ACETONE	25	2.56 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
2.07 E 1 H ACETONE	25	6.50 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
2.88 E 1 H ACETONE	25	1.94 X10-3 M	BC	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
2.07 E 1 H METHANOL	25	2.50 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
3.02 E 1 H METHANOL	25	6.25 X10-4 M	RR	FQHTV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
4.01 E 1 H METHANOL	25	2.20 X10-3 M	BC	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
COMPOUND NO = 668 MOL WGT -	292.5	DIPOTASSIUM OCTYL MALONATE						
	20	3.0 X10-1 M	BC	SURFACE TENSION UNSPEC	SHIN	55007	T	3
COMPOUND NO = 670 MOL WGT -	348.6	DIPOTASSIUM DODECYL MALONATE						
	25	5.0 X10-2 M	BB	FOTOMTR SOLUBLZTN 2NPA	SHIN	55007	T	3
COMPOUND NO = 671 MOL WGT -	376.7	DIPOTASSIUM TETRADECYL MALONATE						
	25	1.8 X10-2 M	BC	FOTOMTR SOLUBLZTN 2NPA	SHIN	55007	T	3
COMPOUND NO = 710 MOL WGT -	190.3	OCTYL DIMETHYL PHOSPHINE OXIDE						
	30	7.7 X10-1 D	BB	TURBIDITY PLT LITE SCATR	HERR BRUS	66039	T	3
		4.04 X10-2 M					M	
COMPOUND NO = 712 MOL WGT -	246.4	DODECYL DIMETHYL PHOSPHINE OXIDE						
	1	2.0 X10-2 D	BC	TURBIDITY PLT LITE SCATR	HERR BRUS	66039	T	3
		8.11 X10-4 M					M	
	30	1.4 X10-2 D	BD	TURBIDITY PLT LITE SCATR	HERR BRUS	66039	T	3
		5.68 X10-4 M					M	
COMPOUND NO = 717 MOL WGT -	378.4	DODECYLQUINOLINIUM BROMIDE						
	25	4.80 X10-3 M	BB	SURFACE TENSION LOG PLOT	FEW GILB	58031	T	3
COMPOUND NO = 720 MOL WGT -	733.2	1-6-DITRIMETHYLAMMONIUM-HEXANE/DODECYL SULFATE/2						
	30	9.6 X10-4 M	CB	EQUIV CONDUCTNCE GRAPH	MEGU KOND	59026	T	3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/l or kg; W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
COMPOUND NO = 1 MOL WGT -	288.3	SODIUM DODECYL 1 SULFATE					
		53005		VALUES FRM REF IN CMC	KLIN LANG	57022	R
		59016		VALUES FRM REF IN CMC	BOTR CRES	60024	R
		47006		VALUES FRM REF IN CMC	CORR HARK	46005	R
				GRAPH DATA NOT RETRIEVED	KLEV	46007	R
01.0	7.6	X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	63026	L L
05.0	7.5	X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L
08.0	8.6	X10-3 M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G L
UNK	1.83	X10-1 D	CC	TURBIDITY PLT LITE SCATR	KUSH HUBB	55003	K L
	6.347	X10-3 M					M
10	8.67	X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 1
10	8.81	X10-3 W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L 1
10.5	8.5	X10-3 M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G L
10.0	8.55	X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 1
10	7.4	X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L
15	8.51	X10-3 W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L 1
15	9.65	X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L L
15	8.43	X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 1
20	8.47	X10-3 W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L 1
20	9.	X10-3 M	DE	VISCOSITY	HESS PHIL	39009	T L
20	8.0	X10-3 M	BB	INTERFACIAL TENSION LOGM	V VO	60025	T L
20	7.22	X10-3 M	CG	EQUIV COND 1ST DEVIATION	WARD	40004	T L
20	8.5	X10-3 M	CB	EQUIV CONDUCTNCE GRAPH	WARD	40004	P L
20	7.7	X10-3 M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	T L
20	6.6	X10-3 M	BB	SURFACE TENSION LOG PLOT	HARR	60004	L L
20	7.1	X10-3 M	BB	SURFACE TENSION LOG PLOT	HARR	60004	G L
20	8.25	X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 1
20	7.95	X10-3 M	BB	INTERFACIAL TENSION LOGM	HAYD PHIL	58012	L L
20	8.0	X10-3 M	BB	SURFACE TENSION LOG PLOT	V VO	61026	TL L
21	2.5	X10-1 D	BD	REFRACTIVE INDEX	HUIS	64047	T L
	8.67	X10-3 M					M
21	2.30	X10-1 D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T L
	7.977	X10-3 M					M
21	2.15	X10-1 D	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T L
	7.457	X10-3 M					M
23	8.	X10-3 N	CD	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T L
24.7	1.3	X10-1 P	HC	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T L
25	1.83	X10-1 D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L
	6.347	X10-3 M					M
25	2.21	X10-1 D	CB	UNSPECIFIED CONDUCTANCE	SCHI FOWK	57014	T L
	7.665	X10-3 M					M
25	7.4	X10-3 M	BB	SURFACE TENSION LOG PLOT	MIYA	60029	T L
25	2.330	X10-1 D	BA	EQUIV CONDUCTNCE GRAPH	WILL MYSE	55005	T 1
	8.081	X10-3 M					M
25	2.340	X10-1 D	BA	FOTOMTR SOLUBLZTN OROT	WILL MYSE	55005	T 1
	8.116	X10-3 M					M
25	2.36	X10-1 D	BB	DEBYE PLT LIGHT SCATTER	WILL MYSE	55005	T 1
	8.185	X10-3 M					M
25	8.39	X10-3 W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L 1
25.2	8.0	X10-3 M	BA	AVER SP EQUIV COND	FLOC UBBE	53008	T L
25	8.2	X10-3 M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T L
25	5.8	X10-3 M	CC	REFRACTIVE INDEX	KLEV	48005	T L
25	6.	X10-3 M	CE	ELECTROMOTIVE FORCE	STAN RADL	60021	T L
25	8.1	X10-3 N	CC	UNSPECIFIED CONDUCTANCE	HAFF FICC	42003	T L
25	7.8	X10-3 M	BB	EQUIV COND 1ST DEVIATION	GODD HIGH	55018	T L
25	8.1	X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	GODD HIGH	55018	K 1
25	8.3	X10-3 M	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G L
25.0	7.4	X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	63026	L L
25	2.324	X10-1 D	BA	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T 1
	8.061	X10-3 M					M
25	8.11	X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	BENT SPAR	66038	T L
25	8.3	X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L L
25	8.8	X10-3 M	BC	VISCOSITY	MIUR MATS	57025	T L
25	8.3	X10-3 M	BB	SURFACE TNSN LINEAR PLOT	MIUR MATS	57025	TA 1
25	8.2	X10-3 M	BC	EQUIV CONDUCTNCE GRAPH	MIUR MATS	57025	T L
25	8.16	X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 1
25	8.2	X10-3 M	BC	SPECFC CONDUCTNCE GRAPH	MIUR MATS	57025	T L
25.6	5.4	X10-3 M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T L
25	8.27	X10-3 W	BA	SPECFC CONDUCTNCE GRAPH	HAMA	62036	T 1
25	7.3	X10-4 M	HC	FOTOMTR SPCTR CHNGE PNCN	GINN HARR	58008	T L
25	5.63	X10-3 M	HC	SPECFC CONDUCTNCE GRAPH	GINN HARR	58008	T L
25.0	7.2	X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L
25	1.63	X10-3 M	HG	FOTOMTR SPCTR CHNGE PNCN	GINN HARR	58008	T L

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality

counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molal; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
	25	4.03 X10 ⁻³ M	HC	SPECFC CONDUCTNCE GRAPH	GINN HARR	58008	T	L
	25	7.2 X10 ⁻² D	HE	METHOD NOT CITED	GINN HARR	61014	T	L
	25	7.2 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
	25	2.29 X10 ⁻¹ D	DC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T	L
		7.943X10 ⁻³ M						M
	25.0	8.22 X10 ⁻³ M	CA	SPECFC CONDUCTNCE GRAPH	MYSE OTTE	61017	TL	L
	25.0	7.83 X10 ⁻³ M	CA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	L	L
	25	8.2 X10 ⁻³ M	BC	UNSPECIFIED CONDUCTANCE	MIUR ARIS	58023	G	L
	25.0	8.27 X10 ⁻³ M	BA	SPECFC CONDUCTNCE EQUATNS	MUKE KAPA	66002	T	1
	25	8.0 X10 ⁻³ M	CB	EQUIV CONDUCTNCE GRAPH	NAKA KAWA	64034	G	L
	25	8.15 X10 ⁻³ M	AB	SURFACE TENSION LOG PLOT	ELWO MYSE	66007	T	1
	25	8.2 X10 ⁻³ M	AA	SURFACE TNSN LINEAR PLOT	ELWO MYSE	66007	T	1
	25	8.4 X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	ELWO MYSE	66007	T	1
	25	6.0 X10 ⁻³ M	GC	REFRACTIVE INDEX	LIN	57005	T	L
	26	6.02 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47006	T	L
	26	6.12 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE RHD6	CORR HARK	47006	T	L
	26	6.02 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T	L
	29	7.7 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	BRAD	48022	T	L
	30	1.00 X10 ⁻² M	GB	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L
	30.0	8.0 X10 ⁻³ M	CB	VELOCITY OF SOUND	SHIG	65022	T	1
	30	8.44 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	30	5. X10 ⁻³ M	CE	SURFACE TENSION MINIMUM	KLEV RAIS	54010	T	L
	30	7.0 X10 ⁻³ W	CC	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
	30	8.23 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	35	8.57 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	35	8.4 X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	1
	35	9.18 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	L
	35	8.39 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	35.8	5.0 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T	L
	35	7.2 X10 ⁻³ M	BC	TURBIDMTR SOLUBLZTN LOH	MIUR ARIS	58023	TA	L
	40	1.2 X10 ⁻² M	XG	VISCOSITY MINIMUM	SATA TYUZ	53006	T	L
	40	8.88 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	40.1	8.1 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G	L
	40	6.1 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	MIYA	60029	T	L
	40	6.1 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE RHD6	MIYA	60029	T	L
	40	7.00 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
	40	8.60 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	40.0	8.65 X10 ⁻³ M	BB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L
	40		XG	VELOCITY OF SOUND	KUPP SURY	65028	T	L
	40	8. X10 ⁻³ M	CD	VISCOSITY	NAKA NINO	64025	T	L
	40	8.9 X10 ⁻³ M	CB	SPECFC CONDUCTNCE GRAPH	MEGU KOND	56020	T	L
	45	9.10 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	45	8.86 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	45.0	4.6 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T	L
	45.0	7.6 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
	45	7.6 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
	45	7.2 X10 ⁻³ M	BC	TURBIDMTR SOLUBLZTN LOH	MIUR ARIS	58023	TA	L
	50	8.1 X10 ⁻³ M	CB	EQUIV COND 1ST DEVIATION	LANG	53005	T	L
	50	9.3 X10 ⁻³ M	CB	EQUIV CONDUCTNCE GRAPH	LANG	53005	K	L
	50	8.1 X10 ⁻³ M	BB	INTERFACIAL TENSION LOGM	KLIN LANG	57022	T	L
	50	8.1 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	KLIN LANG	57022	T	L
	50	9.61 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	D
	50	8.00 X10 ⁻³ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G	L
	50	7.3 X10 ⁻³ W	CC	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
	50	8.9 X10 ⁻³ M	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G	L
	50	9.18 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	D
	50	5.0 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	RAIS	52016	T	L
	50	6.8 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	63013	T	L
	50	6.8 X10 ⁻³ M	CC	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
	54	9.2 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	MIYA	60029	T	L
	55	9.95 X10 ⁻³ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	55	9.8 X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	1
	55.0	9.3 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G	L
	55.0	9.49 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L	1
	55	2.26 X10 ⁻¹ D	CB	UNSPECIFIED CONDUCTANCE	SCHI FOWK	57014	T	L
		7.839X10 ⁻³ M						M
	55.0	7.8 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
	55	9.61 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	55.0	4.5 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T	L
	55	7.3 X10 ⁻³ M	BC	TURBIDMTR SOLUBLZTN LOH	MIUR ARIS	58023	TA	L
	60	1.10 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L
	60	1.016X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	60	2.25 X10 ⁻¹ D	DC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T	L
		7.804X10 ⁻³ M						M
	65	1.091X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	70	1.4 X10 ⁻² M	XG	VISCOSITY MINIMUM	SATA TYUZ	53006	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values – Continued

Additives			Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation	
			65	1.091 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3	
			70	1.4 X10 ⁻² M	XG	VISCOSITY MINIMUM	SATA TYUZ	53006	T	L	
			70	1.14 X10 ⁻² M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	3	
			70	6.6 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L	
			75	1.13 X10 ⁻⁴ M	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G	L	
			75	6.6 X10 ⁻² D	HE	METHOD NOT CITED	GINN HARR	61014	T	L	
			90	1.20 X10 ⁻² M	GB	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L	
			UNK	1.4 X10 ⁻² D	HG	SURFACE TENSION UNGTBC	WAN	66010	T	L	
			UNK	7.8 X10 ⁻³ M	BD	EMF ALONG CONC GRADIENT	BOTR CRES	59015	T	L	
			UNK	8. X10 ⁻³ M	BD	ELECTROMOTIVE FORCE	BOTR CRES	59016	T	L	
			UNK	5.9 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE RHD6	STAN RADL	60021	T	L	
			UNK	8.0 X10 ⁻³ M	BB	UNSPECIFIED CONDUCTANCE	BOTR CRES	59015	T	L	
			UNK	8. X10 ⁻³ M	BB	UNSPECIFIED CONDUCTANCE	BOTR CRES	59016	T	L	
			UNK	8.6 X10 ⁻³ M	BC	ULTRAFILTRATION	HUTC	59018	K	L	
			UNK	5.1 X10 ⁻³ M	CG	METHOD NOT CITED	KLEV CARR	56001	T	L	
			RM	7.6 X10 ⁻³ M	CG	UNSPECIFIED CONDUCTANCE	PRIN HERM	56002	T	L	
			RM	7.15 X10 ⁻³ M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T	L	
			UNK	6.2 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G	L	
			RM	7.2 X10 ⁻³ M	BC	FOTOMTR SPCTR CHNGE PNCN	MIUR MATS	57025	T	L	
			UNK	6.5 X10 ⁻³ M	XG	METHOD NOT CITED	KLEV RAIS	54004	T	L	
			RM	7.55 X10 ⁻³ M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	L	
			UNK	8.0 X10 ⁻³ M	BB	ELECTROMOTIVE FORCE	BOTR DE M	64032	T	L	
			UNK	1.7 X10 ⁻¹ D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L	
				5.89 X10 ⁻³ M						M	
1.	E-2	M	AG NO3	35	5.0 X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	3
5.	E-4	N	AL CL3	70	5.1 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
7.	E-4	N	AL CL3	70	3.8 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.	E-3	N	AL CL3	70	2.2 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
2.	E-3	N	AL CL3	70	1.6 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
3.	E-4	N	BZL* C6H5 /CH3/2 N I	40	4.4 X10 ⁻³ M	BC	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
5.	E-4	N	BZL* C6H5 /CH3/2 N I	40	3.6 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
8.	E-4	N	BZL* C6H5 /CH3/2 N I	40	3.2 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.2	E-3	N	BZL* C6H5 /CH3/2 N I	40	3.0 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.6	E-3	N	BZL* C6H5 /CH3/2 N I	40	2.8 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.7	E-3	N	BZL* C6H5 /CH3/2 N I	40	2.6 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
5.	E-4	N	(C4H9) (CH3)3 N I	40	5.2 X10 ⁻³ M	BC	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.	E-3	N	(C4H9) (CH3)3 N I	40	4.3 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.4	E-3	N	(C4H9) (CH3)3 N I	40	4.0 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.9	E-3	N	(C4H9) (CH3)3 N I	40	3.5 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
3.0	E-3	N	(C4H9) (CH3)3 N I	40	3.0 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.	E-4	N	CA CL2	70	6.0 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
3.	E-4	N	CA CL2	70	5.1 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
5.	E-4	N	CA CL2	70	4.3 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.	E-3	N	CA CL2	70	3.9 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
2.	E-3	N	CA CL2	70	3.0 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
5.	E-3	N	CA CL2	70	2.2 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.2	E-2	N	CA CL2	70	1.8 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
2.5	E-2	N	CA CL2	70	1.4 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
5.	E-2	N	CA CL2	70	1.2 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.0	E-1	N	CA CL2	70	1.0 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
3.0	E-1	N	CA CL2	70	7.7 X10 ⁻⁴ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
9.45	E-4	N	CS CL	40	6.90 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
2.18	E-3	N	CS CL	40	6.15 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
5.15	E-3	N	CS CL	40	5.20 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
8.64	E-3	N	CS CL	40	4.50 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.18	E-2	N	CS CL	40	3.75 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.39	E-2	N	CS CL	40	3.60 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
2.357E-2	N		CS CL	40	2.75 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
2.59	E-2	N	CS CL	40	2.65 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
3.79	E-2	N	CS CL	40	2.10 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
2.04	E-2	N	CS2 SO4	40	3.05 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
3.31	E-2	N	CS2 SO4	40	2.30 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
			CU SO4			GRAPH DATA NOT RETRIEVED	SATA IWAM	63034	R		
2.22	E 1	Q	N-C10 GLYCEROL ETHER	25	8.4 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T	L
					2.91 X10 ⁻³ M					M	
2.22	E 1	Q	N-C10 GLYCEROL ETHER	25	9.7 X10 ⁻² D	CB	UNSPECIFIED CONDUCTANCE	SCHI FOWK	57014	T	L
					3.36 X10 ⁻³ M					M	
5.	E 0	H	DIOXANE	15	6.73 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.0	E 1	H	DIOXANE	15	7.31 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.5	E 1	H	DIOXANE	15	9.03 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
2.0	E 1	H	DIOXANE	15	1.38 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
2.5	E 1	H	DIOXANE	15	2.10 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
2.	E 0	H	DIOXANE	25	8.01 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
3.	E 0	H	DIOXANE	25	8.06 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
5.	E 0	H	DIOXANE	25	7.7 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
7.	E 0	H	DIOXANE	25	8.5 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3
1.0	E 1	H	DIOXANE	25	9.0 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	3

Concentration units: A – mol %; B – vol % solvent; C – mol % surfactant mixture; D – wt/vol %; E – % saturation; H – wt % solvent; I – mol % surfactant; K – normality counterions; M – molar; N – normal; P – wt %; Q – wt % surfactant; R – varied; S – mol/kg; T – wt % surfactant mixture; U – mol/(l or kg); W – molal; Y – atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
1.5	E 1 H	DIOXANE	25	1.31 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
2.0	E 1 H	DIOXANE	25	2.12 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
2.5	E 1 H	DIOXANE	25	3.0 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
5.	E 0 H	DIOXANE	35	8.74 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
1.0	E 1 H	DIOXANE	35	1.05 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
1.5	E 1 H	DIOXANE	35	1.90 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
7.	E-2 P	DECANOL-1	24.7	7. X10 ⁻² P	HD	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T L
2.22	E 1 Q	3,5(CH3)2 C6H3 GLET*	25	1.70 X10 ⁻¹ D	CB	UNSPECIFIED CONDUCTANCE	SCHI FOWK	57014	T L
				5.896X10 ⁻³ M					M
2.22	E 1 Q	3,5(CH3)2 C6H3 GLET*	25	1.4 X10 ⁻¹ D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L
				4.85 X10 ⁻³ M					M
1.00	E 2 A	DEUTERIUM OXIDE	25.0	8.05 X10 ⁻³ M	BA	SPECFC CONDUCTNCE EQUATNS	MUKE KAPA	66002	T 2
9.27	E 0 P	ETHANOL	5	5.51 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
3.	E 0 P	ETHANOL	10.0	7.33 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
5.	E 0 P	ETHANOL	10.0	6.63 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
6.	E 0 P	ETHANOL	10.0	6.33 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.	E 0 P	ETHANOL	10.0	5.55 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27	E 0 P	ETHANOL	10	5.50 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27	E 0 P	ETHANOL	15	5.54 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27	E 0 P	ETHANOL	20	5.67 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.91	E 0 H	ETHANOL	20	5.18 X10 ⁻³ M	CG	EQUIV COND 1ST DEVIATION	WARD	40004	T L
9.91	E 0 H	ETHANOL	20	5.65 X10 ⁻³ M	CB	EQUIV CONDUCTNCE GRAPH	WARD	40004	P 3
2.002E	1 H	ETHANOL	20	8.5 X10 ⁻³ M	CB	EQUIV CONDUCTNCE GRAPH	WARD	40004	P 3
2.002E	1 H	ETHANOL	20	7.22 X10 ⁻³ M	CG	EQUIV COND 1ST DEVIATION	WARD	40004	T L
2.978E	1 H	ETHANOL	20	1.30 X10 ⁻² M	CC	EQUIV CONDUCTNCE GRAPH	WARD	40004	P L
2.978E	1 H	ETHANOL	20	1.04 X10 ⁻² M	CG	EQUIV COND 1ST DEVIATION	WARD	40004	T L
9.27	E 0 P	ETHANOL	25	5.96 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E	1 P	ETHANOL	25	1.067X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27	E 0 P	ETHANOL	30	6.33 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E	1 P	ETHANOL	30	1.146X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27	E 0 P	ETHANOL	35	6.72 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E	1 P	ETHANOL	35	1.310X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27	E 0 P	ETHANOL	40	7.19 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E	1 P	ETHANOL	40	1.496X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27	E 0 P	ETHANOL	45	7.72 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E	1 P	ETHANOL	45	1.656X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27	E 0 P	ETHANOL	50	8.30 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E	1 P	ETHANOL	50	1.831X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
3.	E 0 P	ETHANOL	55.0	8.75 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
5.	E 0 P	ETHANOL	55.0	8.40 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
6.	E 0 P	ETHANOL	55.0	8.42 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.	E 0 P	ETHANOL	55.0	8.92 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
9.27	E 0 P	ETHANOL	55	8.96 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
1.0	E 1 P	ETHANOL	55.0	9.28 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
1.5	E 1 P	ETHANOL	55.0	1.160X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.0	E 1 P	ETHANOL	55.0	1.505X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E	1 P	ETHANOL	55.0	2.005X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L L
9.27	E 0 P	ETHANOL	60	9.70 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
2.498E	1 P	ETHANOL	60	2.170X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	FLOC	57013	L 3
1.13	E 2 I	HEXANOL-1	UNK	5.1 X10 ⁻³ M	BC	ULTRAFILTRATION	HUTC	59018	K L
2.	E-2 N	K CL	70	3.1 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L L
5.	E-2 N	K CL	70	2.4 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L L
0.10	E-1 N	K CL	70	1.6 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L L
1.	E-3 N	K OH	UNK	5. X10 ⁻³ M	BG	METHOD NOT CITED	KLEV CARR	56001	T L
4.08	E-3 N	K2 SO4	40	6.00 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
7.42	E-3 N	K2 SO4	40	5.05 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
1.50	E-2 N	K2 SO4	40	3.95 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
2.16	E-2 N	K2 SO4	40	3.45 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
2.67	E-2 N	K2 SO4	40	3.10 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
3.60	E-2 N	K2 SO4	40	2.50 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
4.53	E-2 N	K2 SO4	40	2.35 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
5.61	E-3 N	LI2 SO4	40	6.10 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
1.00	E-2 N	LI2 SO4	40	5.35 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
1.49	E-2 N	LI2 SO4	40	4.80 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
2.27	E-2 N	LI2 SO4	40	4.00 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
2.74	E 2 N	LI2 SO4	40	3.65 X10 ⁻³ M	BC	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
3.37	E-2 N	LI2 SO4	40	3.40 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
4.36	E-2 N	LI2 SO4	40	2.95 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
5.38	E-2 N	LI2 SO4	40	2.65 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
7.	E-2 P	LAURYL ALCOHOL	24.7	9. X10 ⁻² P	HD	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T L
5.	E-1 I	LAURYL ALCOHOL	25	8.1 X10 ⁻³ M	BC	UNSPECIFIED CONDUCTANCE	MIUR ARIS	58023	G L
6.67	E-1 I	LAURYL ALCOHOL	25	8.1 X10 ⁻³ M	BC	UNSPECIFIED CONDUCTANCE	MIUR ARIS	58023	G L
1.	E 0 I	LAURYL ALCOHOL	25	8.0 X10 ⁻³ M	BC	UNSPECIFIED CONDUCTANCE	MIUR ARIS	58023	G L
3.33	E 0 I	LAURYL ALCOHOL	25	7.0 X10 ⁻³ M	BC	UNSPECIFIED CONDUCTANCE	MIUR ARIS	58023	G L
6.25	E 0 I	LAURYL ALCOHOL	25	6.5 X10 ⁻³ M	BC	UNSPECIFIED CONDUCTANCE	MIUR ARIS	58023	G L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values – Continued

	Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
2.22 E 1 Q	LAURYL ALCOHOL	25	6.6 X10 ⁻² D	CB	UNSPECIFIED CONDUCTANCE	SCHI FOWK	57014	T	L
2.22 E 1 Q	LAURYL ALCOHOL	55	2.28 X10 ⁻³ M 7.6 X10 ⁻² D 2.63 X10 ⁻³ M	CB	UNSPECIFIED CONDUCTANCE	SCHI FOWK	57014	T	L
1. E-3 N	MG CL2	70	3.9 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
5. E-3 N	MG CL2	70	2.2 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
2.5 E-2 N	MG CL2	70	1.5 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
5. E-2 N	MG CL2	70	1.25 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.0 E-1 N	MG CL2	70	1.0 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
2.5 E-1 N	MG CL2	70	8.2 X10 ⁻⁴ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1. E-1 M	NA BR	21	4.13 X10 ⁻² D 1.432X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
1. E-1 M	NA BR	21	4.1 X10 ⁻² D 1.42 X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
3. E-1 M	NA BR	21	2.3 X10 ⁻² D 7.97 X10 ⁻⁴ M	BC	TURBIDITY PLT LITE SCATR	HUIS	64047	T	L
2. E-1 M	NA CL	10.0	7.7 X10 ⁻⁴ M	CB	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
1.00 E-1 M	NA CL	17.0	4.0 X10 ⁻² D 1.38 X10 ⁻³ M	CD	TURBIDITY PLT LITE SCATR	KURI	62009	T	L
1.00 E-1 M	NA CL	18.0	4.0 X10 ⁻² D 1.38 X10 ⁻³ M	CD	TURBIDITY PLT LITE SCATR	KURI	62009	T	L
1. E-2 M	NA CL	20	5.13 X10 ⁻³ M	BB	SURFACE TNSN LINEAR PLOT	MATI PETH	58020	T	L
5. E-2 M	NA CL	20	2.24 X10 ⁻³ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	60011	L	L
1. E-1 K	NA CL	20	1.4 X10 ⁻³ M	BC	INTERFACIAL TENSION LOGM	V VO	60025	T	L
1.0 E-1 M	NA CL	20	1.41 X10 ⁻³ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	60011	L	L
1.0 E-1 M	NA CL	20	1.51 X10 ⁻³ M	BB	SURFACE TNSN LINEAR PLOT	MATI PETH	58020	T	L
1.00 E-1 M	NA CL	20.0	4.1 X10 ⁻² D 1.42 X10 ⁻³ M	CB	TURBIDITY PLT LITE SCATR	KURI	62009	T	L
2. E-1 M	NA CL	20	7.2 X10 ⁻⁴ M	CC	SURFACE TENSION LOG PLOT	HARR	59001	K	L
2.0 E-1 M	NA CL	20	7.59 X10 ⁻⁴ M	BB	SURFACE TNSN LINEAR PLOT	MATI PETH	58020	T	L
2.5 E-1 M	NA CL	20	5.89 X10 ⁻⁴ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	60011	L	L
5.0 E-1 M	NA CL	20	3.24 X10 ⁻⁴ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	60011	L	L
1. E-2 M	NA CL	21	1.62 X10 ⁻¹ D 5.619X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
1. E-2 M	NA CL	21	1.52 X10 ⁻¹ D 5.272X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	3
3. E-2 M	NA CL	21	9.2 X10 ⁻² D 3.19 X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	1
3. E-2 M	NA CL	21	8.7 X10 ⁻² D 3.01 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
1. E-1 M	NA CL	21	4.2 X10 ⁻² D 1.45 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
1. E-1 M	NA CL	21	4.3 X10 ⁻² D 1.49 X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
3. E-1 M	NA CL	21	1.9 X10 ⁻² D 6.59 X10 ⁻⁴ M	BC	TURBIDITY PLT LITE SCATR	HUIS	64047	T	L
3. E-1 M	NA CL	21	2.4 X10 ⁻² D 8.32 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
2. E-2 M	NA CL	25	1.10 X10 ⁻¹ D 3.815X10 ⁻³ M	BE	DEBYE PLT LIGHT SCATTER	WILL MYSE	55005	T	L
2. E-2 M	NA CL	25	1.05 X10 ⁻¹ D 3.642X10 ⁻³ M	BD	TURBIDITY PLT LITE SCATR	WILL MYSE	55005	T	L
3. E-2 M	NA CL	25	9.00 X10 ⁻² D 3.121X10 ⁻³ M	BB	FOTOMTR SOLUBLZTN OROT	WILL MYSE	55005	T	1
3. E-2 M	NA CL	25	9.03 X10 ⁻² D 3.132X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	WILL MYSE	55005	T	1
3. E-2 M	NA CL	25	8.9 X10 ⁻² D 3.08 X10 ⁻³ M	BC	DEBYE PLT LIGHT SCATTER	WILL MYSE	55005	T	L
3. E-2 M	NA CL	25	8.3 X10 ⁻² D 2.87 X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	WILL MYSE	55005	T	L
3. E-2 M	NA CL	25	9.18 X10 ⁻² D 3.184X10 ⁻³ M	BB	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T	1
7.5 E-2 M	NA CL	25	1. X10 ⁻² D 3.4 X10 ⁻⁴ M	BE	TURBIDITY PLT LITE SCATR	PRIN HERM	56011	T	L
1. E-1 M	NA CL	25	1.7 X10 ⁻³ M	BC	ULTRACENTRIFUGATION	ANAC JOHN	64017	T	L
1. E-1 M	NA CL	25	3.0 X10 ⁻² D 1.04 X10 ⁻³ M	BC	TURBIDITY PLT LITE SCATR	WILL MYSE	55005	T	L
1. E-1 M	NA CL	25	3.7 X10 ⁻² D 1.28 X10 ⁻³ M	BC	DEBYE PLT LIGHT SCATTER	WILL MYSE	55005	T	L
1.0 E-1 M	NA CL	25	4.10 X10 ⁻² D 1.422X10 ⁻³ M	BC	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T	L
1.00 E-1 M	NA CL	25	4.15 X10 ⁻² D 1.439X10 ⁻³ M	BC	FOTOMTR SOLUBLZTN OROT	WILL MYSE	55005	T	L
1.00 E-1 M	NA CL	25	4.30 X10 ⁻² D 1.491X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	WILL MYSE	55005	T	3

Concentration units: A – mol %; B – vol % solvent; C – mol % surfactant mixture; counterions; M – molar; N – normal; P – wt %; Q – wt % surfactant; R – varied; S – mol/kg; T – wt % surfactant mixture; U – mol/(l or kg); W – molar; Y – atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
2.	E-1 M NA CL	25	2.8 X10 ⁻² D 9.71 X10 ⁻⁴ M	BD	DEBYE PLT LIGHT SCATTER	WILL MYSE	55005	T L	M
2.	E-1 M NA CL	25	2.5 X10 ⁻² D 8.67 X10 ⁻⁴ M	BC	TURBIDITY PLT LITE SCATR	WILL MYSE	55005	T L	M
2.	E-1 M NA CL	25.0	7.5 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	SCHI	63026	L L	M
2.	E-1 M NA CL	25.0	9.0 X10 ⁻⁴ M	BA	SPECFC CONDUCTNCE GRAPH	MYSE MYSE	65018	T 3	M
3.	E-1 M NA CL	25.0	7. X10 ⁻⁴ M	BD	SPECFC CONDUCTNCE GRAPH	MYSE MYSE	65018	T L	M
4.	E-1 M NA CL	25	1.7 X10 ⁻² D 5.89 X10 ⁻⁴ M	BD	DEBYE PLT LIGHT SCATTER	WILL MYSE	55005	T L	M
4.	E-1 M NA CL	25	1.6 X10 ⁻² D 5.54 X10 ⁻⁴ M	BD	TURBIDITY PLT LITE SCATR	WILL MYSE	55005	T L	M
4.0	E-1 M NA CL	25	1.894X10 ⁻² D 6.569X10 ⁻⁴ M	BC	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T L	M
2.05	E-3 M NA CL	26	5.11 X10 ⁻³ M	DC	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
4.88	E-3 M NA CL	26	4.47 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
9.36	E-3 M NA CL	26	4.19 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
1.85	E-2 M NA CL	26	3.40 X10 ⁻³ M	DC	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
3.11	E-2 M NA CL	26	2.75 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
4.60	E-2 M NA CL	26	2.11 X10 ⁻³ M	DC	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
7.53	E-2 M NA CL	26	1.73 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
1.47	E-1 M NA CL	26	1.35 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
2.43	E-1 M NA CL	26	1.11 X10 ⁻³ M	DC	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
2.69	E-1 M NA CL	26	1.10 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
3.16	E-1 M NA CL	26	9.73 X10 ⁻⁴ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
3.54	E-1 M NA CL	26	8.66 X10 ⁻⁴ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	M
5.	E-2 M NA CL	30	2.34 X10 ⁻³ M	CC	VELOCITY OF SOUND	SHIG	66010	G L	M
1.	E-1 M NA CL	30	1.63 X10 ⁻³ M	CC	VELOCITY OF SOUND	SHIG	66010	G L	M
1.00	E-1 M NA CL	30.0	4.8 X10 ⁻² D 1.66 X10 ⁻³ M	CD	TURBIDITY PLT LITE SCATR	KURI	62009	T L	M
2.	E-1 M NA CL	30	3.0 X10 ⁻² D 1.04 X10 ⁻³ M	CD	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L	M
5.	E-1 M NA CL	30	5.9 X10 ⁻⁴ M	CD	VELOCITY OF SOUND	SHIG	66010	G L	M
1.	E-2 M NA CL	40	5.37 X10 ⁻³ M	BB	SURFACE TNSN LINEAR PLOT	MATI PETH	58020	T L	M
6.75	E-2 M NA CL	40	1.6 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE RHD6	MEGU KOND	56020	T L	M
1.0	E-1 M NA CL	40	1.62 X10 ⁻³ M	BB	SURFACE TNSN LINEAR PLOT	MATI PETH	58020	T L	M
2.0	E-1 M NA CL	40	8.71 X10 ⁻⁴ M	BB	SURFACE TNSN LINEAR PLOT	MATI PETH	58020	T L	M
1.00	E-1 M NA CL	50.2	7.2 X10 ⁻² D 2.49 X10 ⁻³ M	CD	TURBIDITY PLT LITE SCATR	KURI	62009	T L	M
2.	E-1 M NA CL	50	4.0 X10 ⁻² D 1.38 X10 ⁻³ M	CD	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L	M
2.	E-1 M NA CL	55.0	1.1 X10 ⁻³ M	BD	SURFACE TENSION LOG PLOT	SCHI	63026	L L	M
1.	E-2 M NA CL	60	6.17 X10 ⁻³ M	BB	SURFACE TNSN LINEAR PLOT	MATI PETH	58020	T L	M
1.0	E-1 M NA CL	60	2.04 X10 ⁻³ M	BB	SURFACE TNSN LINEAR PLOT	MATI PETH	58020	T L	M
2.0	E-1 M NA CL	60	1.45 X10 ⁻³ M	BB	SURFACE TNSN LINEAR PLOT	MATI PETH	58020	T L	M
1.00	E-1 M NA CL	69.8	1.10 X10 ⁻¹ D 3.815X10 ⁻³ M	CD	TURBIDITY PLT LITE SCATR	KURI	62009	T L	M
1.	E-2 N NA CL	70	4.5 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L L	M
2.	E-2 N NA CL	70	3.2 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L L	M
5.	E-2 N NA CL	70	2.3 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L L	M
1.0	E-1 N NA CL	70	1.6 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L L	M
2.	E-1 M NA CL	70	6.0 X10 ⁻² D 2.08 X10 ⁻³ M	CD	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L	M
2.0	E-1 N NA CL	70	1.2 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L L	M
5.0	E-1 N NA CL	70	7.5 X10 ⁻⁴ M	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L L	M
6.1	E-3 M NA CL	RM	5.7 X10 ⁻³ M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T L	M
1.09	E-2 M NA CL	RM	5.0 X10 ⁻³ M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T L	M
1.83	E-2 M NA CL	RM	4.1 X10 ⁻³ M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T L	M
2.	E-2 M NA CL	UNK	7.1 X10 ⁻² D 2.46 X10 ⁻³ M	CD	TURBIDITY PLT LITE SCATR	KUSH HUBB	55003	K L	M
3.0	E-2 M NA CL	RM	3.5 X10 ⁻³ M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	G L	M
3.21	E-2 M NA CL	RM	3.4 X10 ⁻³ M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T L	M
4.	E-2 M NA CL	UNK	6.0 X10 ⁻² D 2.08 X10 ⁻³ M	CE	TURBIDITY PLT LITE SCATR	KUSH HUBB	55003	K L	M
5.59	E-2 M NA CL	RM	3.0 X10 ⁻³ M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T L	M
6.	E-2 M NA CL	UNK	4.8 X10 ⁻² D 1.66 X10 ⁻³ M	CE	TURBIDITY PLT LITE SCATR	KUSH HUBB	55003	K L	M
1.2	E-1 M NA CL	UNK	2.6 X10 ⁻² D 9.01 X10 ⁻⁴ M	CE	TURBIDITY PLT LITE SCATR	KUSH HUBB	55003	K L	M
2.0	E-1 M NA CL	UNK	1.1 X10 ⁻² D 3.81 X10 ⁻⁴ M	CE	TURBIDITY PLT LITE SCATR	KUSH HUBB	55003	K L	M
1.	E-2 M NA F	21	1.61 X10 ⁻¹ D 5.584X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3	M
3.	E-2 M NA F	21	8.5 X10 ⁻² D 2.94 X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T L	M

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions: M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol %; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

		Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
1.	E-1 M	NA F	21	4.15 X10 ⁻² D 1.439X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T L M
1.	E-1 M	NA F	21	4.2 X10 ⁻² D 1.45 X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3 M
3.	E-1 M	NA F	21	2.0 X10 ⁻² D 6.93 X10 ⁻⁴ M	BC	TURBIDITY PLT LITE SCATR	HUIS	64047	T L M
1.	E-2 M	NA I	21	1.62 X10 ⁻¹ D 5.619X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3 M
3.	E-2 M	NA I	21	9.0 X10 ⁻² D 3.12 X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 1 M
1.	E-1 M	NA I	21	4.0 X10 ⁻² D 1.38 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T L M
1.	E-1 M	NA I	21	4.0 X10 ⁻² D 1.38 X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3 M
3.	E-1 M	NA I	21	2.3 X10 ⁻² D 7.97 X10 ⁻⁴ M	BC	TURBIDITY PLT LITE SCATR	HUIS	64047	T L M
4.	E-2 K	NA N03	20	2.43 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	V VO	61026	TL L
1.	E-2 M	NA N03	35	5.7 X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T 3
1.55	E-3 M	NA4 P207 PYRO	26	4.55 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
5.55	E-3 M	NA4 P207 PYRO	26	3.32 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.87	E-2 M	NA4 P207 PYRO	26	1.86 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
4.13	E-2 M	NA4 P207 PYRO	26	1.24 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
6.02	E-2 M	NA4 P207 PYRO	26	1.06 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
3.48	E-3 M	NA2 S04	26	4.54 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
6.87	E-3 M	NA2 S04	26	3.58 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.18	E-2 M	NA2 S04	26	3.12 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.81	E-2 M	NA2 S04	26	2.40 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
3.03	E-2 M	NA2 S04	26	1.97 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
4.00	E-2 M	NA2 S04	26	1.74 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
8.36	E-2 M	NA2 S04	26	1.36 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.44	E-1 M	NA2 S04	26	9.98 X10 ⁻⁴ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
5.68	E-3 N	NA2 S04	40	5.80 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
8.14	E-3 N	NA2 S04	40	5.50 X10 ⁻³ M	BC	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
1.19	E-2 N	NA2 S04	40	4.70 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
1.70	E-2 N	NA2 S04	40	4.05 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
2.32	E-2 N	NA2 S04	40	3.65 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
3.10	E-2 N	NA2 S04	40	3.10 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
3.82	E-2 N	NA2 S04	40	2.75 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
5.14	E-2 N	NA2 S04	40	2.40 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L L
2.	E 2 I	NA5 P3010 TRIPOLY	60	1.22 X10 ⁻¹ D 4.231X10 ⁻³ M	DC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T L M
2.22	E 1 Q	PENTADECANOL V.BR*	25	1.76 X10 ⁻¹ D 6.104X10 ⁻³ M	CB	UNSPECIFIED CONDUCTANCE	SCHI FOWK	57014	T L M
1.	E-5 M	PINACYANOL CL (DYE)	RM	1.93 X10 ⁻¹ D 6.694X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	MUKE MYSE	55015	G L M
1.	E-5 M	PINACYANOL CL (DYE)	RM	2.01 X10 ⁻¹ D 6.971X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	MUKE MYSE	55015	G L M
4.	E-5 M	PINACYANOL CL (DYE)	RM	2.03 X10 ⁻¹ D 7.041X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	MUKE MYSE	55015	G L M
4.	E-5 M	PINACYANOL CL (DYE)	RM	2.10 X10 ⁻¹ D 7.284X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	MUKE MYSE	55015	G L M
1.	E-4 M	PINACYANOL CL (DYE)	RM	2.15 X10 ⁻¹ D 7.457X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	MUKE MYSE	55015	G L M
1.	E-4 M	PINACYANOL CL (DYE)	RM	2.29 X10 ⁻¹ D 7.943X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	MUKE MYSE	55015	G L M
2.	E-6 M	PINACYANOL CL (DYE)	RM	1.84 X10 ⁻¹ D 6.382X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	MUKE MYSE	55015	G L M
2.	E-6 M	PINACYANOL CL (DYE)	RM	1.91 X10 ⁻¹ D 6.625X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	MUKE MYSE	55015	G L M
5.03	E 0 H	PROPANOL-1	00.5	4.7 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.03	E 0 H	PROPANOL-1	10.5	4.0 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.03	E 0 H	PROPANOL-1	25.2	3.8 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
9.21	E 0 H	PROPANOL-1	25.2	1.31 X10 ⁻³ M	BG	AVER COND BEGINING MAXIM	FLOC UBBE	53008	G L
1.339E	1 H	PROPANOL-1	25.2	6.0 X10 ⁻⁴ M	BG	AVER COND BEGINING MAXIM	FLOC UBBE	53008	G L
1.914E	1 H	PROPANOL-1	25.2	5.0 X10 ⁻⁴ M	BG	AVER COND BEGINING MAXIM	FLOC UBBE	53008	G L
5.03	E 0 H	PROPANOL-1	33.5	4.1 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.03	E 0 H	PROPANOL-1	40.1	4.4 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.03	E 0 H	PROPANOL-1	50.0	5.1 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.71	E 0 H	PROPANOL-2	00.5	5.7 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.71	E 0 H	PROPANOL-2	10.5	4.9 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3
5.71	E 0 H	PROPANOL-2	25.2	4.3 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	T 3
1.040E	1 H	PROPANOL-2	25.2	2.23 X10 ⁻³ M	BG	AVER COND BEGINING MAXIM	FLOC UBBE	53008	G L
1.348E	1 H	PROPANOL-2	25.2	1.83 X10 ⁻³ M	BG	AVER COND BEGINING MAXIM	FLOC UBBE	53008	G L
1.741E	1 H	PROPANOL-2	25.2	1.34 X10 ⁻³ M	BG	AVER COND BEGINING MAXIM	FLOC UBBE	53008	G L
5.71	E 0 H	PROPANOL-2	33.5	4.5 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G 3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
5.71 E 0 H	PROPANOL-2	40.1	5.0 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G	3
5.71 E 0 H	PROPANOL-2	50.0	5.7 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G	3
5.06 E 0 H	PROPIONIC ACID	25.2	4.3 X10 ⁻³ M	BB	AVER SP EQUIV COND	FLOC UBBE	53008	G	3
1.042E 1 H	PROPIONIC ACID	25.2	4.0 X10 ⁻³ M	BD	AVER SP EQUIV COND	FLOC UBBE	53008	G	L
1.519E 1 H	PROPIONIC ACID	25.2	5.5 X10 ⁻³ M	BE	AVER SP EQUIV COND	FLOC UBBE	53008	G	L
5.00 E 2 Y	PRESSURE	25	9.09 X10 ⁻³ W	BA	SPECFC CONDUCTNCE GRAPH	HAMA	62036	G	3
1.000E 3 Y	PRESSURE	25	9.45 X10 ⁻³ W	BA	SPECFC CONDUCTNCE GRAPH	HAMA	62036	G	3
1.500E 3 Y	PRESSURE	25	9.36 X10 ⁻³ W	BA	SPECFC CONDUCTNCE GRAPH	HAMA	62036	G	3
2.000E 3 Y	PRESSURE	25	9.09 X10 ⁻³ W	BA	SPECFC CONDUCTNCE GRAPH	HAMA	62036	G	3
1. E-3 N	PHENYL (CH ₃) ₃ N I	40	4.77 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.4 E-3 N	PHENYL (CH ₃) ₃ N I	40	4.35 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.9 E-3 N	PHENYL (CH ₃) ₃ N I	40	3.8 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
2.5 E-3 N	PHENYL (CH ₃) ₃ N I	40	3.47 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
3.3 E-3 N	PHENYL (CH ₃) ₃ N I	40	3.1 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
4.4 E-3 N	PHENYL (CH ₃) ₃ N I	40	2.8 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
7.5 E-3 N	PHENYL (CH ₃) ₃ N I	40	2.47 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.3 E-2 N	PHENYL (CH ₃) ₃ N I	40	2.15 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.86 E-2 N	PHENYL (CH ₃) ₃ N I	40	1.97 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1. E-5 M	RHODAMINE GGPC	40	6.7 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE RHD6	MEGU KOND	56020	T	L
5. E-6 M	RHODAMINE GGPC	40	6.6 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE RHD6	MEGU KOND	56020	T	L
3. E 0 U	SUCROSE	25	7.1 X10 ⁻³ M	CB	EQUIV CONDUCTNCE GRAPH	NAKA KAWA	64034	G	3
1.0 E 1 D	SUCROSE	25	6.1 X10 ⁻³ M	CC	EQUIV CONDUCTNCE GRAPH	NAKA KAWA	64034	G	L
2.0 E 1 D	SUCROSE	25	5.5 X10 ⁻³ M	CC	EQUIV CONDUCTNCE GRAPH	NAKA KAWA	64034	G	L
3.0 E 1 D	SUCROSE	25	5.1 X10 ⁻³ M	CC	EQUIV CONDUCTNCE GRAPH	NAKA KAWA	64034	G	L
5. E-2 P	TRIBUTYL PHOSPHATE	24.7	1.3 X10 ⁻¹ P	HC	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
2.0 E-1 P	TRIBUTYL PHOSPHATE	24.7	1.8 X10 ⁻¹ P	HC	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
4.0 E-1 P	TRIBUTYL PHOSPHATE	24.7	1.6 X10 ⁻¹ P	HC	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
1.2 E-3 N	(CH ₃) ₄ N I	40	6.15 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
2.85 E-3 N	(CH ₃) ₄ N I	40	5.47 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
4.7 E-3 N	(CH ₃) ₄ N I	40	4.9 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
7.7 E-3 N	(CH ₃) ₄ N I	40	4.1 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
1.3 E-2 N	(CH ₃) ₄ N I	40	3.3 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	GODD HARV	53012	L	L
3. E 0 M	UREA	10	1.06 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6. E 0 M	UREA	10	1.41 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
1. E 0 M	UREA	25	7.4 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
2. E 0 M	UREA	25	8.0 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3. E 0 M	UREA	25	9. X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
4.5 E 0 M	UREA	25	1.02 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6. E 0 M	UREA	25	1.20 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
5. E-3 M	UREA	26	6.2 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	G	L
2.5 E-2 M	UREA	26	6.2 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	G	L
4.7 E-2 M	UREA	26	6.2 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	G	L
1.22 E-1 M	UREA	26	6.2 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	G	L
1.63 E-1 M	UREA	26	6.1 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	G	L
2.35 E-1 M	UREA	26	6.2 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	G	L
2.78 E-1 M	UREA	26	6.1 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	G	L
4.70 E-1 M	UREA	26	6.1 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	G	L
3.22 E 0 M	UREA	26	5.72 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T	L
3. E 0 M	UREA	45	9.1 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6. E 0 M	UREA	45	1.15 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
1.078E 1 C	0003	25.0	8.32 X10 ⁻³ M	CA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T	3
2.006E 1 C	0003	25.0	8.54 X10 ⁻³ M	CA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T	3
2.025E 1 C	0003	25.0	8.54 X10 ⁻³ M	CA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T	3
3.478E 1 C	0003	25.0	9.88 X10 ⁻³ M	CA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T	3
4.912E 1 C	0003	25.0	1.115X10 ⁻² M	CA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T	3
5.998E 1 C	0003	25.0	1.281X10 ⁻² M	BA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T	2
7.100E 1 C	0003	25.0	1.498X10 ⁻² M	BA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T	2
8.466E 1 C	0003	25.0	1.91 X10 ⁻² M	BA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T	2
9.495E 1 C	0003	25.0	2.65 X10 ⁻² M	BA	EQUIV CONDUCTNCE GRAPH	MYSE OTTE	61017	T	2
E 0	0004	50			GRAPH DATA NOT RETRIEVED	LANG	53005		R
1.25 E 1 C	0004	RM	5.11 X10 ⁻³ M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	3
2.5 E 1 C	0004	RM	3.88 X10 ⁻³ M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	3
5.0 E 1 C	0004	RM	2.62 X10 ⁻³ M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	3
E 0	0005	50			SEE CMPD NMBR IN ADDITV	LANG	53005		X
2. E 0 C	0024	70	5.7 X10 ⁻³ N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
5. E 0 C	0024	70	5.3 X10 ⁻³ N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.0 E 1 N	0024	70	4.9 X10 ⁻³ N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
2.5 E 1 C	0024	70	4.0 X10 ⁻³ N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
5.0 E 1 C	0024	70	3.4 X10 ⁻³ N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
7.5 E 1 C	0024	70	3.1 X10 ⁻³ N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
E 0	0064	50			GRAPH DATA NOT RETRIEVED	LANG	53005		R
1.25 E 1 C	0091	UNK	6.8 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G	L
2.98 E 1 C	0091	UNK	7.8 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l org); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives		Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
3.74	E 1 C 0091	UNK	8.3 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
4.97	E 1 C 0091	UNK	9.4 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
6.53	E 1 C 0091	UNK	1.32 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
7.27	E 1 C 0091	UNK	1.59 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
7.84	E 1 C 0091	UNK	1.82 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
8.27	E 1 C 0091	UNK	1.91 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
3.80	E 1 C 0092	25	6.4 X10-3 M	CC	REFRACTIVE INDEX	KLEV	48005	T L	
6.45	E 1 C 0092	25	6.2 X10-3 M	CC	REFRACTIVE INDEX	KLEV	48005	T L	
1.48	E 1 C 0092	UNK	6.1 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
2.07	E 1 C 0092	UNK	6.1 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
3.34	E 1 C 0092	UNK	6.2 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
4.54	E 1 C 0092	UNK	6.2 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
5.69	E 1 C 0092	UNK	6.3 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
6.89	E 1 C 0092	UNK	6.4 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
8.41	E 1 C 0092	UNK	6.5 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
9.30	E 1 C 0092	UNK	6.4 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L	
	0115				SEE CMPD NMBR IN ADDITV	SCHI MANN	66001	X	
	0116				SEE CMPD NMBR IN ADDITV	SCHI MANN	66001	X	
	0205				SEE CMPD NMBR IN ADDITV	SCHI MANN	66001	X	
	0325				SEE CMPD NMBR IN ADDITV	SCHI MANN	66001	X	
	0327				SEE CMPD NMBR IN ADDITV	SCHI MANN	66001	X	
	0417				SEE CMPD NMBR IN ADDITV	KLEV RAIS	54010	X	
7.	E-3 M PENTANOL-1	UNK	4. X10-3 M	BG	METHOD NOT CITED	KLEV CARR	56001	T L	
1.	E-3 N K OH								
2.5	E-2 M PENTANOL-1	UNK	2.5 X10-3 M	BG	METHOD NOT CITED	KLEV CARR	56001	T L	
1.	E-3 N K OH								
9.	E-3 M H CL	25	3.7 X10-3 M	CC	SPECFC CONDUCTNCE GRAPH	JAME PETH	60020	T L	
1.	E-3 M NA CL								
2.	E-1 IONIC STRENGTH	25	3. X10-2 D	HG	REACTN RATE SULUBILIZATE	TONG REEV	65030	T L	
1.01	E 1 PH OF SOLUTION								
5.	E 1 E N-HEPTANE	UNK	4.5 X10-3 M	BG	METHOD NOT CITED	KLEV. CARR	56001	T L	
1.	E-3 N K OH								
1.	E-1 K NA ION	UNK	1.45 X10-3 M	BB	SURFACE TENSION LOG PLOT	ROE BRAS	54013	T L	
6.5	E 0 PH OF SOLUTION								
9.25	E-3 M NA CL	RM	5.1 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T L	
3.1	E-3 M K CL								
1.13	E-2 M NA CL	RM	4.8 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T L	
4.9	E-3 M K CL								
2.06	E-2 M NA CL	RM	3.6 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T L	
7.79	E-3 M K CL								
2.38	E-2 M NA CL	RM	3.8 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T L	
2.4	E-3 M K CL								
4.44	E-2 M NA CL	RM	3.3 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T L	
3.2	E-3 M K CL								
4.94	E-2 M NA CL	RM	2.9 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	T L	
4.8	E-3 M K CL								
2.5	E-3 M NA CL	RM	7.1 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	G L	
2.7	E-2 M LI CL								
1.2	E-2 M NA CL	RM	7.1 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	G L	
1.8	E-2 M LI CL								
1.6	E-2 M NA CL	RM	7.0 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	G L	
1.4	E-2 M LI CL								
2.16	E-2 M NA CL	RM	5.8 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	G L	
8.4	E-3 M LI CL								
2.52	E-2 M NA CL	RM	5.3 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	G L	
4.8	E-3 M LI CL								
2.75	E-2 M NA CL	RM	3.8 X10-3 M	CG	VISUAL FLUOR CHNGE RHD6	PRIN HERM	56002	G L	
2.5	E-3 M LI CL								
3.	E-3 M OCTANOL-1	UNK	2.5 X10-3 M	BG	METHOD NOT CITED	KLEV CARR	56001	T L	
E-3 N K OH									
5.	E-3 M OCTANOL-1	UNK	1.5 X10-3 M	BG	METHOD NOT CITED	KLEV CARR	56001	T L	
1.	E-3 N K OH								
7.	E-3 M OCTANOL-1	UNK	6. X10-4 M	BG	METHOD NOT CITED	KLEV CARR	56001	T L	
1.	E-3 N K OH								
2.5	E-2 M PENTAMINE	UNK	1.8 X10-3 M	BG	METHOD NOT CITED	KLEV CARR	56001	T L	
1.	E-3 N K OH								
558	ENTRIES FOR COMPOUND								
COMPOUND NO =	2	MOL WGT =	232.2	SODIUM	OCTYL 1 SULFATE				
			10	1.421X10-1 W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L 3
			15	1.367X10-1 W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L 3
			20	1.33 X10-1 M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L 3
			20	1.337X10-1 W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L 3

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality

counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molar; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
	21	2.96 X10 ⁻² D	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
		1.274X10 ⁻¹ M					M	
	21	3.10 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		1.335X10 ⁻¹ M					M	
	25	7. X10 ⁻² N	CD	SPECFC CONDUCTNCE GRAPH	HAFF PICC	42003	T	L
	25	1.3 X10 ⁻¹ N	CC	UNSPECIFIED CONDUCTANCE	HAFF PICC	42003	T	L
	25	1.303X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	25	3.0 X10 ⁻² D	BD	TURBIDITY PLT LITE SCATR	PRIN HERM	56011	T	L
		1.29 X10 ⁻¹ M					M	
	30.0	1.30 X10 ⁻¹ M	CB	VELOCITY OF SOUND	SHIG	65022	T	3
	30	1.318X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	35	1.342X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	40	1.363X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	40.0	1.36 X10 ⁻¹ M	BB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
	45	1.381X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	50	9.8 X10 ⁻² M	BB	INTERFACIAL TENSION LOGM	KLIN LANG	57022	T	L
	50	1.434X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	55	1.463X10 ⁻¹ W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	3
	UNK	2.30 X10 ⁻¹ D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
		9.905X10 ⁻¹ M					M	
5. E-2 M NA CL	20	1.12 X10 ⁻¹ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
1.0 E-1 M NA CL	20	9.75 X10 ⁻² M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
2.5 E-1 M NA CL	20	7.08 X10 ⁻² M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
5.0 E-1 M NA CL	20	5.01 X10 ⁻² M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
1. E-2 M NA CL	21	2.90 X10 ⁻² D	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
		1.248X10 ⁻¹ M					M	
3. E-2 M NA CL	21	2.70 X10 ⁻² D	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
		1.162X10 ⁻¹ M					M	
3. E-2 M NA CL	21	2.80 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		1.205X10 ⁻¹ M					M	
1. E-1 M NA CL	21	2.37 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		1.020X10 ⁻¹ M					M	
1. E-1 M NA CL	21	2.21 X10 ⁻² D	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
		9.517X10 ⁻² M					M	
3. E-1 M NA CL	21	1.49 X10 ⁻² D	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
		6.416X10 ⁻² M					M	
3. E-1 M NA CL	21	1.60 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		6.890X10 ⁻² M					M	
1. E O M NA CL	21	8.0 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
		3.44 X10 ⁻² M					M	

32 ENTRIES FOR COMPOUND

COMPOUND NO =	3	MOL WGT =	260.3	SODIUM DECYL 1 SULFATE				
			61005	VALUES FRM REF IN CMC	MYSE OTTE	61017		R
	0	3.88 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	5	3.64 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	10	3.48 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	D
	10	3.50 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	D
	15	3.41 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	15	3.39 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	20	3.35 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	20	3.31 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	21	7.8 X10 ⁻¹ D	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
		2.99 X10 ⁻² M					M	
	21	7.9 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	L
		3.03 X10 ⁻² M					M	
	23	3.1 X10 ⁻² N	CC	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T	L
	25	3.1 X10 ⁻² N	CC	UNSPECIFIED CONDUCTANCE	HAFF PICC	42003	T	L
	25	3.32 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	25.0	3.26 X10 ⁻² M	BA	EQUIV CONDUCTNCE GRAPH	MYSE KAPA	61005	T	1
	25.0	3.35 X10 ⁻² M	BA	SPECFC CONDUCTNCE GRAPH	MYSE KAPA	61005	T	1
	25	3.27 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	25	8.4 X10 ⁻¹ D	DB	TURBIDITY PLT LITE SCATR	PRIN HERM	56011	T	L
		3.22 X10 ⁻² M					M	
	25	8.5 X10 ⁻¹ D	DB	REFRACTIVE INDEX	PRIN HERM	56011	T	L
		3.26 X10 ⁻² M					M	
	25	3.1 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
	25.0	3.32 X10 ⁻² M	BA	SPECFC CONDUCTNCE EQUATNS	MUKE KAPA	66002	T	1
	30	3.31 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	30	3.26 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	35	3.27 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	35	3.35 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	40	3.32 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	40	3.41 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	1
	45	3.38 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	D

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality; counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molar; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives		Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation	
		45	3.49 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	D	
		50	3.2 X10 ⁻² M	BB	INTERFACIAL TENSION LOGM	KLIN LANG	57022	T	L	
		50	3.47 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	D	
		50	3.4 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	KLIN LANG	57022	T	L	
		50	3.64 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	D	
		55	3.59 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	D	
		55	3.78 X10 ⁻² W	BA	SPECFC CONDUCTNCE EQUATNS	GODD BENS	57011	L	D	
		60	3.73 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3	
		65	3.88 X10 ⁻² M	BA	AVER SP EQUIV COND	FLOC	61007	L	3	
		90	4.39 X10 ⁻² W	CA	EQUIV CONDUCTNCE GRAPH	KURZ	62040	T	L	
		UNK	3.0 X10 ⁻² M	BC	ULTRAFILTRATION	HUTC	59018	K	L	
		RM	3.37 X10 ⁻² M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	L	
		UNK	6.8 X10 ⁻¹ D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L	
			2.61 X10 ⁻² M						M	
1.00	E 2 A	DEUTERIUM OXIDE	25.0	3.25 X10 ⁻² M	BA	SPECFC CONDUCTNCE EQUATNS	MUKE KAPA	66002	T	2
6.6	E 1 I	HEXANOL-1	UNK	2.5 X10 ⁻² M	BC	ULTRAFILTRATION	HUTC	59018	K	L
1.16	E 2 I	HEXANOL-1	UNK	2.2 X10 ⁻² M	BC	ULTRAFILTRATION	HUTC	59018	K	L
1.96	E 2 I	HEXANOL-1	UNK	1.8 X10 ⁻² M	BC	ULTRAFILTRATION	HUTC	59018	K	L
1.0	E-1 M	NA CL	20	1.41 X10 ⁻³ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
2.5	E-1 M	NA CL	20	7.41 X10 ⁻³ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
5.0	E-1 M	NA CL	20	4.42 X10 ⁻³ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
1.	E-2 M	NA CL	21	6.9 X10 ⁻¹ D	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
				2.65 X10 ⁻² M					M	
1.	E-2 M	NA CL	21	7.0 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	L
				2.68 X10 ⁻² M					M	
3.	E-2 M	NA CL	21	5.4 X10 ⁻¹ D	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
				2.07 X10 ⁻² M					M	
3.	E-2 M	NA CL	21	5.6 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	L
				2.15 X10 ⁻² M					M	
1.	E-1 M	NA CL	21	3.5 X10 ⁻¹ D	BB	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
				1.34 X10 ⁻² M					M	
1.	E-1 M	NA CL	21	3.45 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	L
				1.325X10 ⁻² M					M	
3.	E-1 M	NA CL	21	1.8 X10 ⁻¹ D	BC	SURFACE TENSION LOG PLOT	HUIS	64047	T	L
				6.91 X10 ⁻³ M					M	
3.	E-1 M	NA CL	21	1.8 X10 ⁻¹ D	BC	TURBIDITY PLT LITE SCATR	HUIS	64047	T	L
				6.91 X10 ⁻³ M					M	
1.00	E-2 M	NA CL	25.0	3.02 X10 ⁻² M	BB	SPECFC CONDUCTNCE GRAPH	MYSE KAPA	61005	L	3
7.5	E-2 M	NA CL	25	4.2 X10 ⁻¹ D	DC	TURBIDITY PLT LITE SCATR	PRIN HERM	56011	T	L
				1.61 X10 ⁻² M					M	
1.00	E-1 M	NA CL	25.0	1.51 X10 ⁻² M	BB	SPECFC CONDUCTNCE GRAPH	MYSE KAPA	61005	L	3
3.	E-1 M	NA CL	25.0	7.3 X10 ⁻³ M	BD	SPECFC CONDUCTNCE GRAPH	MYSE MYSE	65018	T	L
3.00	E-1 M	NA CL	25.0	8.0 X10 ⁻³ M	BD	SPECFC CONDUCTNCE GRAPH	MYSE KAPA	61005	L	L
4.	E-1 M	NA CL	25.0	6.5 X10 ⁻³ M	BD	SPECFC CONDUCTNCE GRAPH	MYSE MYSE	65018	T	L
6.	E-1 M	NA CL	25.0	4.6 X10 ⁻³ M	BC	SPECFC CONDUCTNCE GRAPH	MYSE MYSE	65018	T	L
1.0	E 0 M	NA CL	25.0	2.77 X10 ⁻³ M	BB	SPECFC CONDUCTNCE GRAPH	MYSE MYSE	65018	T	3
1.2	E 0 M	NA CL	25	4. X10 ⁻² D	DD	TURBIDITY PLT LITE SCATR	PRIN HERM	56011	T	L
				1.5 X10 ⁻³ M					M	
4.98	E-2 W	NA CLO4	90	3.66 X10 ⁻² W	CB	UNSPECIFIED CONDUCTANCE	KURZ	62040	T	L
9.89	E-2 W	NA CLO4	90	2.94 X10 ⁻² W	CB	UNSPECIFIED CONDUCTANCE	KURZ	62040	T	L
2.002E-1	W	NA CLO4	90	2.34 X10 ⁻² W	CB	UNSPECIFIED CONDUCTANCE	KURZ	62040	T	L
1.	E 0 M	UREA	25	3.2 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
2.	E 0 M	UREA	25	3.5 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E 0 M	UREA	25	3.7 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
4.5	E 0 M	UREA	25	4.3 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E 0 M	UREA	25	5.0 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
		0001		SEE CMPD NMBR IN ADDITV		MYSE OTTE	61017		X	
1.25	E 1 C	0001	RM	2.02 X10 ⁻² M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	3
2.5	E 1 C	0001	RM	1.56 X10 ⁻² M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	3
5.0	E 1 C	0001	RM	1.08 X10 ⁻² M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	3
7.5	E 1 C	0001	RM	8.55 X10 ⁻³ M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	L
5.00	E 1 C	0004	25	3.03 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
5.00	E 1 C	0004	30	3.09 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
5.00	E 1 C	0004	35	3.18 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
5.00	E 1 C	0004	40	3.31 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
5.00	E 1 C	0004	45	3.47 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00	E 1 C	0004	50	3.66 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00	E 1 C	0004	55	3.87 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00	E 1 C	0004	60	4.16 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00	E 1 C	0004	65	4.51 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00	E 1 C	0004	70	4.90 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
5.00	E 1 C	0004	75	5.35 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
89 ENTRIES FOR COMPOUND										
COMPOUND NO =	4	MOL WGT -	316.4	SODIUM TETRADECYL 1 SULFATE						
			53005	VALUES FRM REF IN CMC		KLIN LANG	57022		R	
			21.5	2.21 X10 ⁻³ M	CB	EQUIV CONDUCTNCE GRAPH	FLOC UBBE	53008	K	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
	25.2	2.08 X10 ⁻³ M	CB	EQUIV CONDUCTNCE GRAPH	FLOC UBBE	53008	K	L
	25	1.4 X10 ⁻³ M	CD	SPECFC CONDUCTNCE GRAPH	BENT SPAR	66038	T	L
	25	2.05 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	30.0	2.2 X10 ⁻³ M	CC	VELOCITY OF SOUND	SHIG	65022	T	L
	30	2.08 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	35	2.13 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	40	2.4 X10 ⁻³ M	CC	UNSPECIFIED CONDUCTANCE	WINS	48008	L	L
	40.1	2.07 X10 ⁻³ M	CB	EQUIV CONDUCTNCE GRAPH	FLOC UBBE	53008	K	L
	40	2.21 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L	1
	40	2.21 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	1
	40.0	2.40 X10 ⁻³ M	BB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L
	45	2.31 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	2
	50	2.1 X10 ⁻³ M	CC	EQUIV CONDUCTNCE GRAPH	LANG	53005	T	L
	50	2.2 X10 ⁻³ M	BB	INTERFACIAL TENSION LOGM	KLIN LANG	57022	T	L
	50	2.0 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	KLIN LANG	57022	T	L
	50	2.54 X10 ⁻³ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G	L
	50	2.43 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	50	6. X10 ⁻² D	BD	TURBIDITY PLT LITE SCATR	PRIN HERM	56011	T	L
		1.8 X10 ⁻³ M					M	
	50	1.32 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	63013	T	L
	55	2.59 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	60	2.80 X10 ⁻³ M	CB	UNSPECIFIED CONDUCTANCE	WINS	48008	L	L
	60	2.77 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	65	2.99 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	70	3.22 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	75	3.50 X10 ⁻³ M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	RM	1.66 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	WINS	48008	T	L
	RM	1.83 X10 ⁻³ M	BB	ELECTROMOTIVE FORCE	SHED JAKO	63001	T	L
	UNK	5.0 X10 ⁻² D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
		1.58 X10 ⁻³ M					M	
5. E O H	DIOXANE	40	2.4 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
1.0 E 1 H	DIOXANE	40	2.9 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
1.5 E 1 H	DIOXANE	40	3.8 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
2.0 E 1 H	DIOXANE	40	5.2 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
2.5 E 1 H	DIOXANE	40	7.5 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
3.0 E 1 H	DIOXANE	40	1.28 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
3.5 E 1 H	DIOXANE	40	1.77 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
1. E-2 N	NA CL	23	1.9 X10 ⁻³ N	CC	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T L
E O	NA CL	50			THEORETICALLY ESTIMATED	PRIN HERM	56011	R
	0001				SEE CMPD NMBR IN ADDITV	SHED JAKO	63001	X
	0001	50			GRAPH DATA NOT RETRIEVED	LANG	53005	R
	0003				SEE CMPD NMBR IN ADDITV	FLOC	61007	X
42 ENTRIES FOR COMPOUND								
COMPOUND NO = 5 MOL WGT - 344.4 SODIUM HEXADECYL 1 SULFATE								
		53005		VALUES FRM REF IN CMC	KLIN LANG	57022	R	
		25	2.1 X10 ⁻⁴ M	CD	SPECFC CONDUCTNCE GRAPH	BENT SPAR	66038	T L
		30	4. X10 ⁻⁴ M	CD	SURFACE TENSION LOG PLOT	WEIL BIST	58003	T L
		30	4.1 X10 ⁻⁴ M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T L
		35	2. X10 ⁻⁴ M	XE	SPECFC CONDUCTNCE GRAPH	MARK TSJK	64051	T L
		35.8	4.4 X10 ⁻⁴ M	CG	FOTOMTR SPCTR CHNGE PNCN	CORR KLEV	46010	T L
		40	5.2 X10 ⁻⁴ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
		40.0	5.8 X10 ⁻⁴ M	BC	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T 3
		45	6.0 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	SCHI	64020	T L
		50	5.4 X10 ⁻⁴ M	CC	EQUIV CONDUCTNCE GRAPH	LANG	53005	T L
		50	6.6 X10 ⁻⁴ M	BB	SURFACE TENSION LOG PLOT	KLIN LANG	57022	T L
		50	6.5 X10 ⁻⁴ M	BB	INTERFACIAL TENSION LOGM	KLIN LANG	57022	T L
		50	6.65 X10 ⁻⁴ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G L
		60	2. X10 ⁻² D	BE	TURBIDITY PLT LITE SCATR	PRIN HERM	56011	T L
			5.8 X10 ⁻⁴ M				M	
		50	4.2 X10 ⁻⁴ M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	63013	T L
		50	4.2 X10 ⁻⁴ M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T L
		60	8. X10 ⁻⁴ M	XE	SPECFC CONDUCTNCE GRAPH	MARK TSJK	64051	T L
		90	1.0 X10 ⁻³ M	XD	SPECFC CONDUCTNCE GRAPH	MARK TSJK	64051	T L
		UNK	2.0 X10 ⁻² D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T L
			5.80 X10 ⁻⁴ M				M	
5. E O H	DIOXANE	40	1.27 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
1.0 E 1 H	DIOXANE	40	2.0 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
1.5 E 1 H	DIOXANE	40	2.8 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
2.0 E 1 H	DIOXANE	40	3.64 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
2.5 E 1 H	DIOXANE	40	4.3 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
3.0 E 1 H	DIOXANE	40	5.0 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	SHIR MATU	65020	L 3
	E O	50			GRAPH DATA NOT RETRIEVED	LANG	53005	R
	E O	50			THEORETICALLY ESTIMATED	PRIN HERM	56011	R
1. E 1 I	NA CL	50	5.4 X10 ⁻⁴ M	CC	EQUIV CONDUCTNCE GRAPH	LANG	53005	T L

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality

counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molar; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

	Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
2.	E 1 I NA CL	50	5.35 X10-4 M	CB	EQUIV CONDUCTNCE GRAPH	LANG	53005	T	L
3.	E O M UREA	45	6.4 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M UREA	45	7.9 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
	E O 0001	50			GRAPH DATA NOT RETRIEVED	LANG	53005	R	
1.	E 1 I 0001	50	6.0 X10-4 M	CC	EQUIV CONDUCTNCE GRAPH	LANG	53005	T	L
2.	E 1 I 0001	50	6.5 X10-4 M	CC	EQUIV CONDUCTNCE GRAPH	LANG	53005	T	L
34 ENTRIES FOR COMPOUND									
COMPOUND NO =	6 MOL WGT -		260.2 SODIUM ALPHA SULFOPELARGONIC ACID						
			UNK 1.00 X10 0 D	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	60008	T	L
			3.843X10-2 M					M	
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	7 MOL WGT -		372.4 SODIUM OCTYL ALPHA SULFOPELARGONATE						
			UNK 2.1 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
			UNK 8. X10-2 D	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	60008	T	L
			2.1 X10-3 M					M	
2 ENTRIES FOR COMPOUND									
COMPOUND NO =	8 MOL WGT -		484.6 DISODIUM ALPHA SULFOPHENYLSTEARATE						
			UNK 5.6 X10-2 D	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	60008	T	L
			1.15 X10-3 M					M	
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	9 MOL WGT -		386.5 SODIUM ALPHA SULFOSTEARIC ACID						
		25			QUESTIONABLE CRITERION	WEIL STIR	60008		R
		25			QUESTIONABLE CRITERION	WEIL STIR	63013		R
2 ENTRIES FOR COMPOUND									
COMPOUND NO =	10 MOL WGT -		408.5 DISODIUM ALPHA SULFOSTEARATE						
		25			QUESTIONABLE CRITERION	WEIL STIR	60008		R
		25			QUESTIONABLE CRITERION	WEIL STIR	63013		R
2 ENTRIES FOR COMPOUND									
COMPOUND NO =	11 MOL WGT -		462.6 SODIUM ALPHA SULFO PHENYL STEARIC ACID						
			UNK 5. X10-3 D	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	60008	T	L
			1.0 X10-4 M					M	
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	12 MOL WGT -		455.4 SODIUM 9,10 DICHLORO ALPHA SULFOSTEARIC ACID						
			UNK 1.7 X10-2 D	FG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	60008	T	L
			3.73 X10-4 M					M	
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	13 MOL WGT -		477.3 DISODIUM 9,10 DICHLORO ALPHA SULFOSTEARATE						
			UNK 1.5 X10-1 D	FG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	60008	T	L
			3.14 X10-3 M					M	
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	14 MOL WGT -		440.5 DISODIUM 9,10 DIHYDROXY ALPHA SULFOSTEARATE						
			UNK 5.9 X10-1 D	FG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	60008	T	L
			1.33 X10-2 M					M	
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	15 MOL WGT -		260.3 SODIUM DECYL 2 SULFATE						
		10	5.15 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
		15	4.92 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
		20	4.70 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
		25	4.56 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
		30	4.52 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
		35	4.50 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
		40	4.50 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
		40.0	4.95 X10-2 M	BB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L
		45	4.52 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
		50	4.57 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
		55	4.65 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality; T - wt % surfactant mixture; U - mol/(l or kg); W - molal; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
	60	4.79 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
	65	4.95 X10-2 M	BA	AVER SP EQUIV COND	FLOC	61007	L	3
13 ENTRIES FOR COMPOUND								
COMPOUND NO = 16	MOL WGT -	316.4	SODIUM TETRADECYL 2 SULFATE					
		25	3.27 X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 2
		30	3.28 X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 2
		35	3.31 X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 2
		40	3.3 X10-3 M	CC	UNSPECIFIED CONDUCTANCE	WINS	48008	L L
		40.0	3.30 X10-3 M	BB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T L
		40	3.38 X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 3
		45	3.48 X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 3
		50	3.64 X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 3
		55	3.83 X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 3
		60	3.75 X10-3 M	CB	UNSPECIFIED CONDUCTANCE	WINS	48008	L L
		60	4.04 X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 3
		65	4.29 X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 3
		70	4.60 X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 3
		75	5.00 X10-3 M	BA	AVER SP EQUIV COND	FLOC	61007	L 3
		RM	3.26 X10-3 M	CC	VISUAL SPCTR CHNGE PNCN	WINS	48008	T L
15 ENTRIES FOR COMPOUND								
COMPOUND NO = 17	MOL WGT -	316.4	SODIUM TETRADECYL 4 SULFATE					
		25	5.12 X10-3 M	CA	AVER SP EQUIV COND	FLOC	61007	L 3
		30	5.05 X10-3 M	CA	AVER SP EQUIV COND	FLOC	61007	L 3
		35	5.04 X10-3 M	CA	AVER SP EQUIV COND	FLOC	61007	L 3
		40	5.2 X10-3 M	CB	UNSPECIFIED CONDUCTANCE	WINS	48008	L L
		40.0	5.15 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T 3
		40	5.12 X10-3 M	CA	AVER SP EQUIV COND	FLOC	61007	L 3
		45	5.23 X10-3 M	CA	AVER SP EQUIV COND	FLOC	61007	L 3
		50	5.38 X10-3 M	CA	AVER SP EQUIV COND	FLOC	61007	L 3
		55	5.57 X10-3 M	CA	AVER SP EQUIV COND	FLOC	61007	L 3
		60	6.10 X10-3 M	CB	UNSPECIFIED CONDUCTANCE	WINS	48008	L L
		60	5.85 X10-3 M	CA	AVER SP EQUIV COND	FLOC	61007	L 3
		65	6.21 X10-3 M	CA	AVER SP EQUIV COND	FLOC	61007	L 3
		70	6.62 X10-3 M	CA	AVER SP EQUIV COND	FLOC	61007	L 3
		75	7.11 X10-3 M	CA	AVER SP EQUIV COND	FLOC	61007	L 3
		RM	4.76 X10-3 M	CC	VISUAL SPCTR CHNGE PNCN	WINS	48008	T L
15 ENTRIES FOR COMPOUND								
COMPOUND NO = 18	MOL WGT -	292.4	OCTYL BETA D GLUCOSIDE					
		20	2.6 X10-2 W	BD	SURFACE TENSION LOG PLOT	BURY BROW	52011	T L
		25	61008		VALUES FRM REF IN CMC	SHIN YAMA	59013	R
		25	2.5 X10-2 M	BB	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T 3
		30	2.3 X10-2 W	BC	SURFACE TENSION LOG PLOT	BURY BROW	52011	T L
9.3 E-1 N	CA CL2	25	1.7 X10-2 M	BB	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T L
4.7 E-1 N	NA CL	25	1.7 X10-2 M	BB	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T L
9.3 E-1 N	NA CL	25	1.2 X10-2 M	BC	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T L
9.3 E-1 N	NA2 SO4	25	9. X10-3 M	BC	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T L
8.9 E 0 C	0019	25	1.25 X10-2 M	BB	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T L
8.4 E-1 C	0020	25	1.5 X10-2 M	BC	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T L
10 ENTRIES FOR COMPOUND								
COMPOUND NO = 19	MOL WGT -	320.4	DECYL BETA D GLUCOSIDE					
		25	2.2 X10-3 M	BB	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T 3
0018					SEE CMPD NMBR IN ADDITV	SHIN YAMA	61008	X
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 20	MOL WGT -	348.5	DODECYL BETA D GLUCOSIDE					
		25	1.9 X10-4 M	BB	SURFACE TENSION LOG PLOT	SHIN YAMA	61008	T 3
0018					SEE CMPD NMBR IN ADDITV	SHIN YAMA	61008	X
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 21	MOL WGT -	229.4	DIMETHYL DODECYL AMINE OXIDE					
		62005			VALUES FRM REF IN CMC	HERR	64006	R
		01.0	2.84 X10-3 M	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T L
		25	2. X10-3 M	BE	HEAT OF DILUTION	BENJ	64016	L L
		26.5	4.3 X10-1 P	BC	HEAT OF DILUTION	BENJ	66012	L L
			1.87 X10-2 S					M
		27.0	2.10 X10-3 M	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T 3
		30	4.5 X10-2 P	BC	DENSITY	BENJ	66040	T L
			1.96 X10-3 S					M

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality

counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molal; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

	Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
		40.0	1.83 X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T	L
		50.0	1.75 X10 ⁻³ M	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T	L
2.5	E O B BUTANOL-1	26.5	2.2 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
			9.59 X10 ⁻³ S					M	
5.	E O B BUTANOL-1	26.5	1.2 X10 ⁻¹ P	BD	HEAT OF DILUTION	BENJ	66012	L	L
			5.23 X10 ⁻³ S					M	
7.	E O B BUTANOL-1	26.5	6. X10 ⁻² P	BE	HEAT OF DILUTION	BENJ	66012	L	L
			2.6 X10 ⁻³ S					M	
5.	E O B ETHANOL	26.5	3.9 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
			1.70 X10 ⁻² S					M	
1.0	E 1 B ETHANOL	26.5	3.4 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
			1.48 X10 ⁻² S					M	
1.0	E 1 B METHANOL	26.5	4.5 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
			1.96 X10 ⁻² S					M	
1.5	E 1 B METHANOL	26.5	4.0 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
			1.74 X10 ⁻² S					M	
2.	E-1 M NA CL	27	3.4 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T	L
			1.48 X10 ⁻³ M					M	
5.	E O B PROPANOL-1	26.5	2.8 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
			1.22 X10 ⁻² S					M	
1.0	E 1 B PROPANOL-1	26.5	1.7 X10 ⁻¹ P	BD	HEAT OF DILUTION	BENJ	66012	L	L
			7.41 X10 ⁻³ S					M	
2.0	E 1 B PROPANOL-1	26.5	1.1 X10 ⁻¹ P	BD	HEAT OF DILUTION	BENJ	66012	I.	I.
			4.79 X10 ⁻³ S					M	
2.	E O M UREA	26.5	5.4 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
			2.35 X10 ⁻² S					M	
4.	E O M UREA	26.5	6.9 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
			3.00 X10 ⁻² S					M	
6.5	E O M UREA	26.5	1.04 X10 ⁰ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
			4.533X10 ⁻² S					M	
1.	E O M GUANIDINIUM CL	26.5	4.8 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
	7.5 E O PH OF SOLUTION		2.09 X10 ⁻² S					M	
2.	E O M GUANIDINIUM CL	26.5	6.2 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
	7.5 E O PH OF SOLUTION		2.70 X10 ⁻² S					M	
3.	E O M GUANIDINIUM CL	26.5	7.8 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
	7.5 E O PH OF SOLUTION		3.40 X10 ⁻² S					M	
4.	E O M GUANIDINIUM CL	26.5	8.8 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
	7.5 E O PH OF SOLUTION		3.83 X10 ⁻² S					M	
2.	E O N GUANIDINIUM CO3	26.5	1.9 X10 ⁻¹ P	BC	HEAT OF DILUTION	BENJ	66012	L	L
			8.28 X10 ⁻³ S					M	
1.	E-1 M NA CL	25	3.50 X10 ⁻³ M	BC	FOTOMTR SOLUBLZTN YLOB	TOKI OHKI	66027	G	L
	2.0 E O PH OF SOLUTION								
1.	E-1 M NA CL	25	3.10 X10 ⁻³ M	BC	FOTOMTR SOLUBLZTN YLOB	TOKI OHKI	66027	G	L
	3.2 E O PH OF SOLUTION								
1.	E-1 M NA CL	25	1.95 X10 ⁻³ M	BC	FOTOMTR SOLUBLZTN YLOB	TOKI OHKI	66027	G	L
	4.2 E O PH OF SOLUTION								
1.	E-1 M NA CL	25	1.25 X10 ⁻³ M	BC	FOTOMTR SOLUBLZTN YLOB	TOKI OHKI	66027	G	L
	5.1 E O PH OF SOLUTION								
1.	E-1 M NA CL	25	1.01 X10 ⁻³ M	BC	FOTOMTR SOLUBLZTN YLOB	TOKI OHKI	66027	G	L
	6.1 E O PH OF SOLUTION								
1.	E-1 M NA CL	25	1.00 X10 ⁻³ M	BC	FOTOMTR SOLUBLZTN YLOB	TOKI OHKI	66027	G	L
	7.1 E O PH OF SOLUTION								
33 ENTRIES FOR COMPOUND									
COMPOUND NO = 22 MOL WGT - 265.9 DIMETHYL DODECYL AMINE OXIDE HYDROCHLORIDE									
			62005		VALUES FRM REF IN CMC	HERR	64006	R	
1.	E-2 M H CL	25	5. X10 ⁻³ M	BE	HEAT OF DILUTION	BENJ	64016	L	L
1.	E-3 M H CL	27	1.9 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T	3
			7.14 X10 ⁻³ M					M	
1.	E-2 M H CL	27	1.8 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T	3
			0.70 X10 ⁻³ M					M	
1.	E-3 M H CL	27	3.4 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T	L
	2. E-2 M NA CL		1.27 X10 ⁻³ M					M	
1.	E-3 M H CL	27	4.8 X10 ⁻² D	BB	TURBIDITY PLT LITE SCATR	HERR	62005	T	L
	1. E-1 M NA CL		1.80 X10 ⁻³ M					M	
6 ENTRIES FOR COMPOUND									
COMPOUND NO = 23 MOL WGT - 373.2 SILVER DODECYL 1 SULFATE									
		35	7.3 X10 ⁻³ M	BA	SPECFC CONDCTNCE GRAPH	CORK GOOD	62006	T	2
		55	8.4 X10 ⁻³ M	BA	SPECFC CONDCTNCE GRAPH	CORK GOOD	62006	T	3
1.	E-2 M AG NO3	35	4.7 X10 ⁻³ M	BA	SPECFC CONDCTNCE GRAPH	CORK GOOD	62006	T	3
1.	E-2 M NA NO3	35	5.4 X10 ⁻³ M	BA	SPECFC CONDCTNCE GRAPH	CORK GOOD	62006	T	3
4 ENTRIES FOR COMPOUND									

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality

counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molar; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives		Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO =	24 MOL WGT -	570.8	CALCIUM	DODECYL 1 SULFATE					
		54	1.3 X10-3 M	BC	SURFACE TENSION LOG PLOT	MIYA	60029	T	L
		54	1.3 X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	MIYA	60029	T	L
		70	3.4 X10-3 N	BB	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	3
		70	2.9 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.0	E-4 N CA CL2	70	1.02 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
3.0	E-4 N CA CL2	70	7.7 X10-4 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.	E-3 N CA CL2	70	2.6 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
5.	E-3 N CA CL2	70	2.15 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
2.5	E-2 N CA CL2	70	1.45 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.	E-3 M NA CL	70	2.85 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
4.	E-3 M NA CL	70	2.8 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.	E-2 M NA CL	70	2.7 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
2.	E-2 M NA CL	70	2.6 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
3.	E-2 M NA CL	70	2.6 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
5.	E-2 M NA CL	70	2.4 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.0	E-1 M NA CL	70	1.7 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
2.0	E-1 M NA CL	70	1.25 X10-3 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
5.0	E-1 M NA CL	70	7.3 X10-4 N	CG	VISUAL SPCTR CHNGE PNCN	LANG	51005	L	L
1.	E-2 M NA NO3 0001	70	3.3 X10-3 N	BB	SPECFC CONDUCTNCE GRAPH	CORK GOOD	62006	T	3
		70			SEE CMPD NMBR IN ADDITV	LANG	51005		X
20 ENTRIES FOR COMPOUND									
COMPOUND NO =	25 MOL WGT -	288.3	SODIUM	ETHYL ALPHA SULFOPELARGONATE					
		UNK	9.80 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	26 MOL WGT -	330.4	SODIUM	AMYL ALPHA SULFOPELARGONATE					
		UNK	1.56 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	T	L
		UNK	1.60 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
2 ENTRIES FOR COMPOUND									
COMPOUND NO =	27 MOL WGT -	344.4	SODIUM	HEXYL ALPHA SULFOPELARGONATE					
		UNK	7.0 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	28 MOL WGT -	358.4	SODIUM	HEPTYL ALPHA SULFOPELARGONATE					
		UNK	4.5 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	29 MOL WGT -	386.5	SODIUM	NONYL ALPHA SULFOPELARGONATE					
		UNK	1.2 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	30 MOL WGT -	400.5	SODIUM	DECYL ALPHA SULFOPELARGONATE					
		UNK	5. X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	31 MOL WGT -	372.4	SODIUM	2 OCTYL ALPHA SULFOPELARGONATE					
		UNK	3.6 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	32 MOL WGT -	372.4	SODIUM	2 ETHYLHEXYL ALPHA SULFOPELARGONATE					
		UNK	1.9 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	33 MOL WGT -	400.5	SODIUM	/OXO/ DECYL ALPHA SULFOPELARGONATE					
		UNK	3. X10-4 M	HG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	34 MOL WGT -	428.6	SODIUM	DODECYL ALPHA SULFOPELARGONATE					
		UNK	1. X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO =	35 MOL WGT -	574.3	SODIUM	H/CF2CF2/3CH2 ALPHA SULFOPELARGONATE					
		UNK	2.4 X10-3 M	HG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
1 ENTRIES FOR COMPOUND									

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/ D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
	RM	1.4 X10-2 D	CG	FOTOMTR SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		3.75 X10-4 M					M	
	RM	1.5 X10-2 D	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		4.02 X10-4 M					M	
4 ENTRIES FOR COMPOUND								
COMPOUND NO =	37	MOL WGT -	193.7	DECYLAMMONIUM CHLORIDE				
	20	3.2 X10-2 M	CC	EQUIV CONDUCTNCE GRAPH	RALS HOER	42002	P	L
	25	4. X10-2 M	CE	REFRACTIVE INDEX	KLEV	48005	T	L
	25	4.8 X10-2 M	XC	REFRACTIVE INDEX	KLEV	53010	T	L
	25.0	5.40 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	HOYE GREE	57004	T	L
	40	3.8 X10-2 M	CC	EQUIV CONDUCTNCE GRAPH	RALS HOER	42002	P	L
	60	3.8 X10-2 M	CC	EQUIV CONDUCTNCE GRAPH	RALS HOER	42002	P	L
	RM	4. X10-2 M	BD	PH OR HYDROLYSIS	VEIS HOER	60001	T	L
7 ENTRIES FOR COMPOUND								
COMPOUND NO =	38	MOL WGT -	221.8	DODECYL AMMONIUM CHLORIDE				
		59016		VALUES FRM REF IN CMC	BOTR CRES	60024		R
		50008		VALUES FRM REF IN CMC	CORR HARK	46004		R
		47006		VALUES FRM REF IN CMC	CORR HARK	46005		R
		48016		VALUES FRM REF IN CMC	KOLT STRI	49005		R
	15	1.56 X10-2 M	BB	SPECFC CONDUCTNCE GRAPH	EGGE HARW	51006	T	3
	18.0	1.45 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	HOYE GREE	57004	T	L
	20	1.5 X10-2 M	XC	VISCOSITY MINIMUM	SATA TYUZ	53006	T	L
	20	1.56 X10-2 M	BB	SPECFC CONDUCTNCE GRAPH	EGGE HARW	51006	T	L
	20	1.50 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	2
	23.5	2.95 X10-1 D	BB	REFRACTIVE INDEX	KLEV	46012	T	L
		1.330X10-2 M					M	
	25	1.43 X10-2 M	BG	EQUIV COND 1ST DEVIATION	BROW GRIE	49014	T	L
	25	1.46 X10-2 M	BA	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	P	1
	25	1.28 X10-2 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
	25	1.52 X10-2 M	BB	SPECFC CONDUCTNCE GRAPH	EGGE HARW	51006	T	L
	25	1.34 X10-2 W	BB	SPECFC CONDUCTNCE GRAPH	CZER	65031	T	L
	25.6	1.31 X10-2 M	CG	FOTOMTR SPCTR CHNGE INPX	KLEV	47004	T	L
	25.0	1.34 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	L
	25	1.47 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	1
	25.0	1.38 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	HOYE GREE	57004	T	L
	26	1.27 X10-2 M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47006	T	L
	26	1.36 X10-2 M	BG	VISUAL SPCTR CHNGE EOSN	CORR HARK	47006	T	L
	26	1.30 X10-2 M	BG	VISUAL SPCTR CHNGE FL	CORR HARK	47006	T	L
	26	1.24 X10-2 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	47006	T	L
	26	1.31 X10-2 M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47010	T	L
	26	1.31 X10-2 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	47010	T	L
	27	1.50 X10-2 M	BB	SPECFC CONDUCTNCE GRAPH	EGGE HARW	51006	T	3
	30	5.23 X10-1 D	CC	TURBIDITY FLT LITE SCATR	KUSHI HARK	57006	T	L
		1.456X10-2 M					M	
	30	1.6 X10-2 M	XG	VISCOSITY MINIMUM	SATA TYUZ	53006	T	L
	30	1.46 X10-2 M	BC	EQUIV CONDUCTNCE GRAPH	RALS BROO	49013	T	L
	30	1.65 X10-2 W	XB	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
	30	1.3 X10-2 M	CD	REFRACTIVE INDEX	KLEV	48005	T	L
	30	1.4 X10-2 M	XC	VISUAL SPCTR CHNGE	KLEV	53010	T	L
	30	1.47 X10-2 M	BB	DENSITY	CART ANAC	60005	K	1
	30	1.29 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	RALS HOER	46001	T	L
	30	1.34 X10-2 M	CB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T	L
	30	1.47 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48020	K	1
	30	1.45 X10-2 M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48021	K	L
	30	1.44 X10-2 N	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T	L
	30	1.50 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	EGGE HARW	51006	T	1
	30	1.48 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	1
	30	1.34 X10-2 M	CB	FOTOMTR SOLUBLZTN AZBZ	KOLT STRI	49005	T	L
	30	1.34 X10-2 M	CB	FOTOMTR SOLUBLZTN OROT	KOLT STRI	49005	T	L
	30	1.48 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	GK	1
	35	1.36 X10-2 W	BB	SPECFC CONDUCTNCE GRAPH	CZER	65031	T	L
	35.8	1.25 X10-2 M	CG	FOTOMTR SPCTR CHNGE INPX	KLEV	47004	T	L
	35.0	1.33 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	HOYE GREE	57004	T	L
	40	1.49 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	EGGE HARW	51006	T	L
	40	1.50 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	2
	45.0	1.21 X10-2 M	CG	FOTOMTR SPCTR CHNGE INPX	KLEV	47004	T	L
	45	1.43 X10-2 W	BB	SPECFC CONDUCTNCE GRAPH	CZER	65031	T	L
	50	1.30 X10-2 M	HB	SPECFC CONDUCTNCE GRAPH	MARO ELDE	54006	T	L
	50	1.4 X10-2 W	XD	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
	50	1.34 X10-2 M	CB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T	L
	50	1.65 X10-2 M	BB	SPECFC CONDUCTNCE GRAPH	EGGE HARW	51006	T	L
	50	1.58 X10-2 M	BA	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	3

A-mol %; B-vol % solvent; C-mol % surfactant; D-wt/vol %; E-% saturation; H-wt % solvent; I-mol % surfactant; K-normality counterions;

M-molar; N-normal; P-wt %; Q-wt % surfactant; R-varied; S-mol/kg; T-wt % surfactant; U-mol/(l or kg); W-molal; Y-atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Compounds	Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 36 MOL WGT = 372.4 SODIUM METHYL ALPHA SULFOPALMITATE									
		28	1.2 X10 ⁻² D	CD	SURFACE TENSION UNSPEC	WEIL STR	56008	T	L
			3.22 X10 ⁻⁴ M					M	
		UNK	4. X10 ⁻⁴ M	CG	VISUAL SPCTR CHNGE PNCN	STIR WEIL	62008	T	L
		50	1.37 X10 ⁻² M	CB	FOTOMTR SOLUBLZTN OROT	KOLT STRI	49005	T	L
		50	1.34 X10 ⁻² M	CB	FOTOMTR SOLUBLZTN AZBZ	KOLT STRI	49005	T	L
		55.0	1.20 X10 ⁻² M	CG	FOTOMTR SPCTR CHNGE INPX	KLEV	47004	T	L
		55	1.50 X10 ⁻² W	BB	SPECFC CONDUCTNCE GRAPH	CZER	65031	T	L
		60	1.3 X10 ⁻² M	CC	EQUIV CONDUCTNCE GRAPH	RALS HOER	42002	T	L
		60	1.80 X10 ⁻² M	BC	SPECFC CONDUCTNCE GRAPH	EGGE HARW	51006	T	L
		60	1.71 X10 ⁻² M	BB	SPECFC CONDUCTNCE GRAPH	RALS EGGE	48027	P	3
		UNK	1.4 X10 ⁻² M	CC	UNSPECIFIED CONDUCTANCE	BOTR CRES	59016	T	L
		UNK	1.4 X10 ⁻² M	CD	ELECTROMOTIVE FORCE	BOTR CRES	59016	T	L
		RM	1.3 X10 ⁻² M	BD	PH OR HYDROLYSIS	VEIS HOER	60001	T	L
		UNK	1.31 X10 ⁻² M	CG	VISUAL SPCTR CHNGE DCFL	CORR HARK	46004	G	L
		UNK	1.4 X10 ⁻² M	BG	METHOD NOT CITED	KLEV CARR	56001	T	L
3.66 E 0 A	ACETONITRILE	30	1.61 X10 ⁻² N	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T	3
3.27 E 0 A	ACETONE	30	1.30 X10 ⁻² N	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T	3
7.06 E 0 A	ACETONE	30	1.51 X10 ⁻² N	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T	L
9.95 E 0 A	ACETONE	30	4.54 X10 ⁻² N	DD	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T	L
7.67 E-3 M	BA CL2	26	1.05 X10 ⁻² M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47010	T	L
1.27 E-2 M	BA CL2	26	8.66 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L
1.76 E-2 M	BA CL2	26	8.01 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	47010	T	L
2.19 E-2 M	BA CL2	26	7.48 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47010	T	L
3.16 E-2 M	BA CL2	26	6.21 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47010	T	L
3.45 E-2 M	BA CL2	26	5.89 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	47010	T	L
4.07 E-2 M	BA CL2	26	5.56 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47010	T	L
2.5 E-3 N	BA CL2	30	1.36 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
5. E-3 N	BA CL2	30	1.30 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
1. E-2 N	BA CL2	30	1.13 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
2. E-2 N	BA CL2	30	9.4 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
1.00 E 2 E	BENZENE	30	1.12 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48021	K	L
1.55 E-1 M	BUTANOL-1	25	9.03 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
3.42 E-1 M	BUTANOL-1	25	5.96 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
4.64 E-1 M	BUTANOL-1	25	4.06 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
2.5 E-3 N	CA ACETATE	30	1.40 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K	L
5. E-3 N	CA ACETATE	30	1.28 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K	L
1. E-2 N	CA ACETATE	30	1.09 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K	L
2. E-2 N	CA ACETATE	30	9.2 X10 ⁻³ M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K	L
2. E-2 N	CA FORMATE	30	9.4 X10 ⁻³ M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K	L
1.00 E 2 E	CYCLOHEXANE	30	1.25 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48021	K	L
3.7 E 0 H	DIOXANE	UNK	1.36 X10 ⁻² M	CG	VISUAL SPCTR CHNGE DCFL	CORR HARK	46004	G	L
7.5 E 0 H	DIOXANE	UNK	1.42 X10 ⁻² M	CG	VISUAL SPCTR CHNGE DCFL	CORR HARK	46004	G	L
1.63 E 1 H	DIOXANE	UNK	1.51 X10 ⁻² M	CG	VISUAL SPCTR CHNGE DCFL	CORR HARK	46004	G	L
9.02 E-5 M	DECANOL-1	25	1.09 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
1.43 E-4 M	DECANOL-1	25	9.43 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
1.88 E-4 M	DECANOL-1	25	8.27 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
2.00 E-4 M	DECANOL-1	25	7.91 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
2.31 E-4 M	DECANOL-1	25	7.61 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
3.9 E 0 H	ETHYLENE GLYCOL	UNK	1.33 X10 ⁻² M	CG	VISUAL SPCTR CHNGE DCFL	CORR HARK	46004	G	L
7.9 E 0 H	ETHYLENE GLYCOL	UNK	1.36 X10 ⁻² M	CG	VISUAL SPCTR CHNGE DCFL	CORR HARK	46004	G	L
1.54 E 1 H	ETHYLENE GLYCOL	UNK	1.40 X10 ⁻² M	CG	VISUAL SPCTR CHNGE DCFL	CORR HARK	46004	G	L
5.69 E-1 M	ETHANOL	25	1.26 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
8.68 E-1 M	ETHANOL	25	1.20 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
1.918E 0 M	ETHANOL	25	1.06 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
2.627E 0 M	ETHANOL	25	9.73 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
3.163E 0 M	ETHANOL	25	8.75 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T	L
2.65 E 0 A	ETHANOL	30	1.77 X10 ⁻² N	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T	3
4.17 E 0 A	ETHANOL	30	1.38 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	RALS HOER	46001	T	L
5.77 E 0 A	ETHANOL	30	3.00 X10 ⁻² N	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T	L
8.80 E 0 A	ETHANOL	30	1.52 X10 ⁻² M	CC	SPECFC CONDUCTNCE GRAPH	RALS HOER	46001	T	L
1.437E 1 A	ETHANOL	30	2.1 X10 ⁻² M	CC	SPECFC CONDUCTNCE GRAPH	RALS HOER	46001	T	L
2.068E 1 A	ETHANOL	30	4.3 X10 ⁻² M	CD	SPECFC CONDUCTNCE GRAPH	RALS HOER	46001	T	L
2.812E 1 A	ETHANOL	30	1.03 X10 ⁻¹ M	CD	SPECFC CONDUCTNCE GRAPH	RALS HOER	46001	T	L
8.6 E 0 H	GLYCEROL	UNK	1.33 X10 ⁻² M	CG	VISUAL SPCTR CHNGE DCFL	CORR HARK	46004	G	L
1.30 E 1 H	GLYCEROL	UNK	1.35 X10 ⁻² M	CG	VISUAL SPCTR CHNGE DCFL	CORR HARK	46004	G	L
2. E-2 N	ACETIC ACID	30	1.49 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K	L
2.5 E-3 M	HEXYL AMMONIUM CL	30	1.43 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48020	K	3
5. E-3 M	HEXYL AMMONIUM CL	30	1.26 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48020	K	3
1.0 E-2 M	HEXYL AMMONIUM CL	30	1.16 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48020	K	L
2.5 E-2 M	HEXYL AMMONIUM CL	30	8.8 X10 ⁻³ M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48020	K	L
5.0 E-2 M	HEXYL AMMONIUM CL	30	6.1 X10 ⁻³ M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48020	K	L
2.5 E-3 N	H CL	30	1.39 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
2.50 E-3 W	H CL	30.0	1.306X10 ⁻² W	BB	ELECTROMOTIVE FORCE	HUTC WINS	57021	T	L
5. E-3 N	H CL	30	1.27 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3
1. E-2 N	H CL	30	1.15 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G	3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
1.003E-2 W	H CL	30.0	1.165X10 ⁻² W	BB	ELECTROMOTIVE FORCE	HUTC WINS	57021	T L
2. E-2 N	H CL	30	9.2 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
5.008E-2 W	H CL	30.0	5.54 X10 ⁻³ W	BC	ELECTROMOTIVE FORCE	HUTC WINS	57021	T L
1.002E-1 W	H CL	30.0	2.0 X10 ⁻³ W	BD	ELECTROMOTIVE FORCE	HUTC WINS	57021	T L
2.51 E-3 W	H CL	40.0	1.162X10 ⁻² W	BB	ELECTROMOTIVE FORCE	HUTC WINS	57021	T L
1.004E-2 W	H CL	40.0	1.000X10 ⁻² W	BB	ELECTROMOTIVE FORCE	HUTC WINS	57021	T L
5.012E-2 W	H CL	40.0	5.04 X10 ⁻³ W	BE	ELECTROMOTIVE FORCE	HUTC WINS	57021	T L
1.002E-1 W	H CL	40.0	1.9 X10 ⁻³ W	BD	ELECTROMOTIVE FORCE	HUTC WINS	57021	T L
2. E-2 N	FORMIC ACID	30	1.45 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K L
1.00 E 2 E	N-HEXANE.	30	1.30 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48021	K L
2.5 E-3 N	H NO3	30	1.20 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
5. E-3 N	H NO3	30	1.02 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
1. E-2 N	H NO3	30	7.3 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
2. E-2 N	H NO3	30	4.9 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
5.0 E-3 M	HEXANOL-1	25	1.17 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.6 E-3 M	HEXANOL-1	25	1.13 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
8.2 E-3 M	HEXANOL-1	25	1.06 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.18 E-2 M	HEXANOL-1	25	1.01 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.46 E-2 M	HEXANOL-1	25	9.5 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.64 E-2 M	HEXANOL-1	25	9.4 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.68 E-2 M	HEXANOL-1	25	9.1 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.96 E-2 M	HEXANOL-1	25	8.4 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
2.5 E-3 N	SUCCINIC ACID	30	1.48 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K L
2. E-2 N	TARTARIC ACID	30	1.83 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K L
1.90 E-3 M	HEPTANOL-1	25	1.15 X10 ⁻² M	BC	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
2.74 E-3 M	HEPTANOL-1	25	1.11 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
3.59 E-3 M	HEPTANOL-1	25	1.09 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
4.94 E-3 M	HEPTANOL-1	25	9.97 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
5.96 E-3 M	HEPTANOL-1	25	9.02 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.43 E-3 M	HEPTANOL-1	25	8.65 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
7.07 E-3 M	HEPTANOL-1	25	8.55 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
7.73 E-3 M	HEPTANOL-1	25	7.80 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
7.5 E-3 M	K CL	25	1.01 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.50 E-2 M	K CL	25	8.06 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
3.00 E-2 M	K CL	25	6.62 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.00 E-2 M	K CL	25	4.70 X10 ⁻³ M	BC	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
5. E-2 N	K CL	50	6. X10 ⁻³ M	CE	FOTOMTR SOLUBLZTN PDMA	KOLT STRI	49005	T L
1. E-1 N	K CL	50	3.5 X10 ⁻³ M	CB	FOTOMTR SOLUBLZTN PDMA	KOLT STRI	49005	T L
7.10 E-3 M	LA CL3	26	1.15 X10 ⁻² M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47010	T L
1.27 E-2 M	LA CL3	26	8.12 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47010	T L
1.72 E-2 M	LA CL3	26	6.95 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47010	T L
1.619E 1 H	METHANOL	25	3.1 X10 ⁻² M	BF	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T L
1.619E 1 H	METHANOL	25	1.77 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	P 3
2.465E 1 H	METHANOL	25	2.37 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T 3
2.465E 1 H	METHANOL	25	5.2 X10 ⁻² M	BF	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T L
4.82 E 0 A	METHANOL	30	1.64 X10 ⁻² N	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T 3
1.271E 1 A	METHANOL	30	2.50 X10 ⁻² N	BD	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48023	T L
2.5 E 1 B	METHANOL	30	2.50 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K L
2.5 E-3 N	NA ACETATE	30	1.39 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K L
5. E-3 N	NA ACETATE	30	1.29 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K L
1. E-2 N	NA ACETATE	30	1.10 X10 ⁻² M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K L
2. E-2 N	NA ACETATE	30	8.6 X10 ⁻³ M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K L
8.02 E-3 M	NA CL	26	1.16 X10 ⁻² M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47010	T L
1.71 E-2 M	NA CL	26	9.88 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	47010	T L
2.75 E-2 M	NA CL	26	7.93 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47010	T L
4.96 E-2 M	NA CL	26	7.16 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	47010	T L
9.23 E-2 M	NA CL	26	5.13 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	47010	T L
1. E-3 N	NA CL	30	1.42 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
2.5 E-3 N	NA CL	30	1.39 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
5. E-3 N	NA CL	30	1.30 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
1. E-2 M	NA CL	30	2.72 X10 ⁻¹ D	CC	TURBIDITY FLT LITE SCATR	KUSH PARK	57006	T L
			1.226X10 ⁻² M					M
1. E-2 N	NA CL	30	1.13 X10 ⁻² M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
2. E-2 N	NA CL	30	8.9 X10 ⁻³ M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
2. E-2 M	NA CL	30	2.27 X10 ⁻¹ D	CC	TURBIDITY FLT LITE SCATR	KUSH PARK	57006	T L
			1.023X10 ⁻² M					M
4. E-2 M	NA CL	30	1.65 X10 ⁻¹ D	CC	TURBIDITY FLT LITE SCATR	KUSH PARK	57006	T L
			7.439X10 ⁻³ M					M
5. E-2 M	NA CL	30	6.7 X10 ⁻³ M	BB	DENSITY	CART ANAC	60005	K 3
5. E-2 N	NA CL	30	6.0 X10 ⁻³ M	CB	FOTOMTR SOLUBLZTN OROT	KOLT STRI	49005	T L
5. E-2 N	NA CL	30	6.0 X10 ⁻³ M	CB	FOTOMTR SOLUBLZTN AZB	KOLT STRI	49005	T L
5. E-2 N	NA CL	30	6.2 X10 ⁻³ M	CB	FOTOMTR SOLUBLZTN PDMA	KOLT STRI	49005	T L
6. E-2 M	NA CL	30	1.45 X10 ⁻¹ D	CC	TURBIDITY FLT LITE SCATR	KUSH PARK	57006	T L
			6.537X10 ⁻³ M					M
0. E-2 M	NA CL	30	1.18 X10 ⁻¹ D	CC	TURBIDITY FLT LITE SCATR	KUSH PARK	57006	T L
			5.320X10 ⁻³ M					M

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol %; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
1.0	E-1 M NA CL	30	1.09 X10-1 D 4.914X10-3 M	CD	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T L M
1.5	E-1 M NA CL	30	1.01 X10-1 D 4.553X10-3 M	CD	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T L M
2.0	E-1 M NA CL	30	9.3 X10-2 D 4.19 X10-3 M	CE	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T L M
2.5	E-1 M NA CL	30	9.3 X10-2 D 4.19 X10-3 M	CE	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T L M
3.0	E-1 M NA CL	30	8.5 X10-2 D 3.83 X10-3 M	CE	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T L M
5.	E-2 N NA CL	50	6.5 X10-3 M	CB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
5.	E-2 N NA CL	50	6.0 X10-3 M	CB	FOTOMTR SOLUBLZTN OROT	KOLT STRI	49005	T L
1.	E-1 N NA CL	50	3.6 X10-3 M	CB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
1.	E-1 N NA CL	50	3.5 X10-3 M	CB	FOTOMTR SOLUBLZTN OROT	KOLT STRI	49005	T L
2.	E-1 N NA CL	50	2.6 X10-3 M	CC	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
2.	E-2 N NA HCO2 FORMATE	30	9.1 X10-3 M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K L
1.	E-3 N NA NO3	30	1.37 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
2.5	E-3 N NA NO3	30	1.23 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
5.	E-3 N NA NO3	30	9.9 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
1.	E-2 N NA NO3	30	7.6 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
2.	E-2 N NA NO3	30	4.6 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	G 3
2.5	E-3 N NA SUCCINATE	30	6.1 X10-3 M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	49008	K L
3.85	E-1 M PROPANOL-1	25	1.09 X10-2 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.31	E-1 M PROPANOL-1	25	8.99 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
9.88	E-1 M PROPANOL-1	25	7.03 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.54	E-1 M PROPANOL-2	25	9.53 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.046E 0 M	PROPANOL-2	25	7.62 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
8.00 E 0 H	PROPANOL-2	25	9.2 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T 3
1.619E 1 H	PROPANOL-2	25	1.04 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T 3
5.	E 2 Y PRESSURE	25.0	1.39 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G L
1.	E 3 Y PRESSURE	25.0	1.42 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G L
2.	E 3 Y PRESSURE	25.0	1.41 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G L
4.84	E-5 M UNDECANOL-1	25	1.06 X10-2 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.39	E-5 M UNDECANOL-1	25	9.43 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
8.31	E-5 M UNDECANOL-1	25	9.19 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.01	E-4 M UNDECANOL-1	25	7.47 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.28	E-4 M UNDECANOL-1	25	7.07 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
5.66	E 0 H TERTIARY BUTANOL	25	7.9 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T 3
7.88	E 0 H TERTIARY BUTANOL	25	7.4 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	BROW GRIE	49014	T 3
6.39	E-3 M TRIETHYL CARBINOL	25	1.18 X10-2 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.22	E-2 M TRIETHYL CARBINOL	25	1.11 X10-2 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
2.22	E-2 M TRIETHYL CARBINOL	25	1.01 X10-2 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
3.08	E-2 M TRIETHYL CARBINOL	25	9.32 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
3.72	E-2 M TRIETHYL CARBINOL	25	8.44 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
4.27	E-2 M TRIETHYL CARBINOL	25	7.76 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
4.80	E-2 M TRIETHYL CARBINOL	25	7.27 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
2.5	E-3 M 0039	30	2.5 X10-3 M	BE	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48020	K L
1.	E-1 K CL- ION	UNK	3.50 X10-3 M	CB	SURFACE TENSION LOG PLOT	ROE BRAS	54013	T L
2.0	E 0 PH OF SOLUTION							
2.52	E-5 M DECANOL-1	25	4.43 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.00	E-2 M K CL							
4.53	E-5 M DECANOL-1	25	3.98 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.00	E-2 M K CL							
4.96	E-5 M DECANOL-1	25	6.00 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
3.00	E-2 M K CL							
5.52	E-5 M DECANOL-1	25	6.73 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.50	E-2 M K CL							
6.32	E-5 M DECANOL-1	25	3.70 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.00	E-2 M K CL							
8.81	E-5 M DECANOL-1	25	8.63 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
7.5	E-3 M K CL							
8.05	E-5 M DECANOL-1	25	3.53 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.00	E-2 M K CL							
8.23	E-5 M DECANOL-1	25	4.98 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
3.00	E-2 M K CL							
8.86	E-5 M DECANOL-1	25	3.11 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.00	E-2 M K CL							
9.42	E-5 M DECANOL-1	25	5.74 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.50	E-2 M K CL							
1.01	E-4 M DECANOL-1	25	2.95 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
6.00	E-2 M K CL							
1.03	E-4 M DECANOL-1	25	4.14 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
3.00	E-2 M K CL							
1.10	E-4 M DECANOL-1	25	6.95 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
7.5	E-3 M K CL							
1.26	E-4 M DECANOL-1	25	3.82 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
3.00	E-2 M K CL							

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol %; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
1.44 E-4 M DECANOL-1 3.00 E-2 M K CL	25	3.48 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.51 E-4 M DECANOL-1 1.50 E-2 M K CL	25	4.61 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.56 E-4 M DECANOL-1 7.5 E-3 M K CL	25	6.57 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.63 E-4 M DECANOL-1 3.00 E-2 M K CL	25	3.21 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.71 E-4 M DECANOL-1 1.50 E-2 M K CL	25	4.17 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.86 E-4 M DECANOL-1 1.50 E-2 M K CL	25	3.79 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.97 E-4 M DECANOL-1 7.5 E-3 M K CL	25	6.23 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
2.18 E-4 M DECANOL-1 7.5 E-3 M K CL	25	5.53 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
2.44 E-4 M DECANOL-1 7.5 E-3 M K CL	25	5.15 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
3.46 E-3 M HEXANOL-1 1.50 E-2 M K CL	25	7.79 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
4.03 E-3 M HEXANOL-1 7.5 E-3 M K CL	25	9.41 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
4.78 E-3 M HEXANOL-1 6.00 E-2 M K CL	25	3.86 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
4.88 E-3 M HEXANOL-1 3.00 E-2 M K CL	25	5.70 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
7.54 E-3 M HEXANOL-1 6.00 E-2 M K CL	25	3.05 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
7.89 E-3 M HEXANOL-1 3.00 E-2 M K CL	25	4.61 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
8.20 E-3 M HEXANOL-1 7.5 E-3 M K CL	25	8.70 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
9.79 E-3 M HEXANOL-1 1.50 E-2 M K CL	25	6.02 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
9.96 E-3 M HEXANOL-1 6.00 E-2 M K CL	25	2.68 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.10 E-2 M HEXANOL-1 3.00 E-2 M K CL	25	4.30 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.17 E-2 M HEXANOL-1 6.00 E-2 M K CL	25	2.36 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.20 E-2 M HEXANOL-1 7.5 E-3 M K CL	25	7.61 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.29 E-2 M HEXANOL-1 6.00 E-2 M K CL	25	2.09 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.36 E-2 M HEXANOL-1 3.00 E-2 M K CL	25	3.97 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.37 E-2 M HEXANOL-1 1.50 E-2 M K CL	25	5.62 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.41 E-2 M HEXANOL-1 6.00 E-2 M K CL	25	1.90 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.44 E-2 M HEXANOL-1 3.00 E-2 M K CL	25	3.38 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.60 E-2 M HEXANOL-1 7.5 E-3 M K CL	25	6.79 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.65 E-2 M HEXANOL-1 1.50 E-2 M K CL	25	5.08 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.69 E-2 M HEXANOL-1 3.00 E-2 M K CL	25	3.29 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.91 E-2 M HEXANOL-1 1.50 E-2 M K CL	25	4.71 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
1.93 E-2 M HEXANOL-1 7.5 E-3 M K CL	25	6.13 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
2.23 E-2 M HEXANOL-1 7.5 E-3 M K CL	25	5.69 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
2.54 E-2 M HEXANOL-1 7.5 E-3 M K CL	25	5.39 X10-3 M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	50008	T L
2.564E 1 H METHANOL 4.4 E 0 I LAURYL ALCOHOL	25	1.69 X10-2 M	BG	EQUIV CONDCTNCE GRAPH	BROW GRIE	49014	T L
2.564E 1 H METHANOL 1.11 E 1 I LAURYL ALCOHOL	25	1.08 X10-2 M	BG	EQUIV CONDCTNCE GRAPH	BROW GRIE	49014	T L
2.564E 1 H METHANOL 2.61 E 1 I LAURYL ALCOHOL	25	8.3 X10-3 M	BG	EQUIV CONDCTNCE GRAPH	BROW GRIE	49014	T L
2.564E 1 H METHANOL 6.51 E 1 I LAURYL ALCOHOL	25	6.9 X10-3 M	BG	EQUIV CONDCTNCE GRAPH	BROW GRIE	49014	T L
2.5 E 1 B METHANOL 2. E-2 N NA CL	30	1.82 X10-2 M	BC	EQUIV CONDCTNCE GRAPH	RAIS EGGE	49008	K L
293 ENTRIES FOR COMPOUND							

Concentration units: A—mol %, B—vol % solvent, C—mol % surfactant mixture; counterions, M—molar, N—normal, P—wt %, Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 39 MOL WGT -	249.9	TETRADECYL	AMMONIUM CHLORIDE					
	25.0	2.8 X10-3 M	CC	SPECFC CONDUCTNCE GRAPH	HOYE GREE	57004	T	L
	30	3.7 X10-3 M	BC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	48020	K	L
	40	3.1 X10-3 M	CC	REFRACTIVE INDEX	KLEV	48005	T	L
	40	3.1 X10-3 M	XC	REFRACTIVE INDEX	KLEV	53010	T	L
	60	4.5 X10-3 M	CC	EQUIV CONDUCTNCE GRAPH	RALS HOER	42002	P	L
0038 6 ENTRIES FOR COMPOUND				SEE CMPD NMBER IN ADDITV	RALS EGGE	48020		X
COMPOUND NO = 40 MOL WGT -	288.4	POTASSIUM DODECYL 1 SULFONATE						
	25	9.00 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
	25	9.0 X10-3 M	CC	REFRACTIVE INDEX	LIN	57005	T	L
	30	9.10 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
	35	9.20 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
	40	9.30 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
	40	1.1 X10-2 M	BC	SURFACE TENSION LOG PLOT	V VO	61026	TL	L
	45	9.50 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
	50	9.75 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
	55	1.000X10-2 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
	60	1.040X10-2 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
5. E-2 D BENZENE	25	8.65 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
1.0 E-1 D BENZENE	25	8.25 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
1.5 E-1 D BENZENE	25	7.60 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
5. E-2 D BENZENE	30	8.80 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
1.0 E-1 D BENZENE	30	8.45 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
1.5 E-1 D BENZENE	30	7.95 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
5. E-2 D BENZENE	35	9.00 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
1.0 E-1 D BENZENE	35	8.75 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
1.5 E-1 D BENZENE	35	8.35 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
5. E-2 D BENZENE	40	9.10 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
1.0 E-1 D BENZENE	40	8.90 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
1.5 E-1 D BENZENE	40	8.65 X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	LIN	55008	T	L
2. E-2 K K NO3	20	4.47 X10-3 M	BB	SURFACE TENSION LOG PLOT	V VO	61026	TL	L
4. E-2 K K NO3	20	3.55 X10-3 M	BB	SURFACE TENSION LOG PLOT	V VO	61026	TL	L
24 ENTRIES FOR COMPOUND								
COMPOUND NO = 41 MOL WGT -	263.9	DODECYL	TRIMETHYL AMMONIUM CHLORIDE					
	23	5.70 X10-1 D	CC	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T	L
		2.159X10-2 M						M
	25	1.72 X10-2 M	BB	UNSPECIFIED CONDUCTANCE	HOYE MARM	61002	T	L
	25	2.0 X10-2 M	BC	SURFACE TENSION LOG PLOT	WEIN ZOGR	65026	T	L
	25.0	2.03 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
	30	2.28 X10-2 M	BC	EQUIV CONDUCTNCE GRAPH	RALS BROO	49013	T	L
	30	1.6 X10-2 M	XG	VISUAL SPCTR CHNGE	KLEV	53010	T	L
	UNK	2.28 X10-2 M	BC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
1. E-1 M K CL	25	7.5 X10-3 M	BC	SURFACE TENSION LOG PLOT	WEIN ZOGR	65026	T	L
2. E-2 M NA CL	23	4.20 X10-1 D	CC	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T	L
		1.591X10-2 M						M
4. E-2 M NA CL	23	3.10 X10-1 D	CC	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T	L
		1.174X10-2 M						M
1.0 E-1 M NA CL	23	1.90 X10-1 D	CC	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T	L
		7.199X10-3 M						M
5. E 2 Y PRESSURE	25.0	2.09 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
1. E 3 Y PRESSURE	25.0	2.11 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
1.5 E 3 Y PRESSURE	25.0	2.04 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
2. E 3 Y PRESSURE	25.0	1.98 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
3. E 3 Y PRESSURE	25.0	1.87 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
4. E 3 Y PRESSURE	25.0	1.83 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
5. E 3 Y PRESSURE	25.0	1.81 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G	3
2.59 E 1 C 0042	25	1.14 X10-2 M	BB	UNSPEC SOLUBLZTN SDN 4	HOYE MARM	61002	T	L
5.00 E 1 C 0042	25	7.47 X10-3 M	BB	UNSPEC SOLUBLZTN SDN 4	HOYE MARM	61002	T	L
7.59 E 1 C 0042	25	5.01 X10-3 M	BB	UNSPEC SOLUBLZTN SDN 4	HOYE MARM	61002	T	L
4.96 E-1 W NA CL	31.5	3.8 X10-3 M	BC	DEBYE PLT LIGHT SCATTER	ANAC GHOS	63016	T	L
3.8 E-3 M NA BR								
22 ENTRIES FOR COMPOUND								
COMPOUND NO = 42 MOL WGT -	292.0	TETRADECYL	TRIMETHYL AMMONIUM CHLORIDE					
	23	1.20 X10-1 D	CC	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T	L
		4.109X10-3 M						M
	25	3.0 X10-3 M	HE	EQUIV CONDUCTNCE GRAPH	BRAD MCBA	48009	T	L
	25	4.47 X10-3 M	BB	UNSPECIFIED CONDUCTANCE	HOYE MARM	61002	T	3
	40	3.6 X10-3 M	XG	VISUAL SPCTR CHNGE	KLEV	53010	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives			Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
			40	4.0 X10-3 M	XC	REFRACTIVE INDEX	KLEV	53010	T	L
			UNK	6.3 X10-3 M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
2.	E-2 M	NA CL	23	7.0 X10-2 D	CC	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T	L
				2.39 X10-3 M					M	
4.	E-2 M	NA CL	23	4.0 X10-2 D	CC	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T	L
				1.36 X10-3 M					M	
1.0	E-1 M	NA CL	23	3.0 X10-2 D	CC	TURBIDITY PLT LITE SCATR	KUSH PARK	57006	T	L
				1.02 X10-3 M					M	
		0041				SEE CMPD NMBR IN ADDITV	HOYE MARM	61002		X
10 ENTRIES FOR COMPOUND										
COMPOUND NO = 43 MOL WGT -			88.1	BUTYRIC ACID						
			0	1.50 X10-1 P	AB	PARTIAL VOLUME	GRIN BURY	29001	T	L
				1.702X10-0 S					M	
			0	1.1 X10-0 W	AE	FREEZING POINT	JONE BURY	27002	T	L
			0	1.5 X10-0 W	AE	FREEZING POINT	JONE BURY	27002	P	L
			0	1.82 X10-0 M	AD	UNSPEC SOLUBLZTN PDMAB	MOUL BENS	59007	T	L
			12	1.37 X10-1 P	AB	PARTIAL VOLUME	GRIN BURY	29001	T	L
				1.555X10-0 S					M	
			18	1.30 X10-1 P	AB	PARTIAL VOLUME	GRIN BURY	29001	T	L
				1.475X10-0 S					M	
			25	1.23 X10-1 P	AB	PARTIAL VOLUME	GRIN BURY	29001	T	L
				1.396X10-0 S					M	
			25	1.75 X10-0 M	AD	UNSPEC SOLUBLZTN PDMAB	MOUL BENS	59007	T	L
			35	1.20 X10-1 P	AB	PARTIAL VOLUME	GRIN BURY	29001	T	L
				1.362X10-0 S					M	
			40	1.58 X10-0 M	AD	UNSPEC SOLUBLZTN PDMAB	MOUL BENS	59007	T	L
			60	1.62 X10-0 M	AD	UNSPEC SOLUBLZTN PDMAB	MOUL BENS	59007	T	L
			UNK	1.2 X10-0 M	XG	METHOD NOT CITED	KLEV RAIS	54004	T	L
12 ENTRIES FOR COMPOUND										
COMPOUND NO = 44 MOL WGT -			182.3	POTASSIUM OCTANOATE						
			25	4.7 X10-1 M	BC	GRAPH DATA NOT RETRIEVED	KLEV	46007		R
			25	3.9 X10-1 M	DC	PARTIAL VOLUME	DAVI BURY	30001	T	L
			25	3.95 X10-1 M	CG	REFRACTIVE INDEX	KLEV	48005	T	L
			25	4.00 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T	L
			25	4.00 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
			25	3.9 X10-1 M	BC	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L
			45	4.5 X10-1 M	DG	REFRACTIVE INDEX	KLEV	48005	T	L
			UNK	3.9 X10-1 M	XG	METHOD NOT CITED	KLEV RAIS	54004	T	L
2.2	E-1 P	BENZENE	25	3.84 X10-1 M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T	L
7.5	E-2 M	K CL	25	3.76 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
3.09	E-1 M	K CL	25	3.09 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
5.30	E-1 M	K CL	25	2.65 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
8.65	E-1 M	K CL	25	2.16 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
1.22	E-0 M	K CL	25	1.75 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
1.52	E-0 M	K CL	25	1.52 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
2.22	E-0 M	K CL	25	1.11 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
2.73	E-0 M	K CL	25	9.1 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
2.97	E-0 M	K CL	25	0.5 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
3.20	E-0 M	K CL	25	8.0 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
2.	E-0 I	K OH	10	4.00 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	S	L
3.3	E-2 W	K OH	15	3.72 X10-1 W	BA	SPECFC CONDCTNCE EQUATNS	WHIT BENS	59012	E	3
3.3	E-2 W	K OH	20	3.55 X10-1 W	BA	SPECFC CONDCTNCE EQUATNS	WHIT BENS	59012	E	3
4.2	E-2 W	K OH	20	4.3 X10-1 W	BB	VAPR PRESURE LOWERING	WHIT BENS	59008	T	L
3.3	E-2 W	K OH	25	3.45 X10-1 W	BA	SPECFC CONDCTNCE EQUATNS	WHIT BENS	59012	E	3
4.20	E-2 W	K OH	25	4.25 X10-1 W	BA	SPECIFIC HEAT	WHIT BENS	60002	T	L
2.	E-0 I	K OH	25	3.8 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G	L
3.3	E-2 W	K OH	30	3.30 X10-1 W	BA	SPECFC CONDCTNCE EQUATNS	WHIT BENS	59012	E	3
4.2	E-2 W	K OH	30	4.2 X10-1 W	BB	VAPR PRESURE LOWERING	WHIT BENS	59008	T	L
3.3	E-2 W	K OH	35	3.13 X10-1 W	BA	SPECFC CONDCTNCE EQUATNS	WHIT BENS	59012	E	3
4.20	E-2 W	K OH	35	3.92 X10-1 W	BA	SPECIFIC HEAT	WHIT BENS	60002	T	L
3.3	E-2 W	K OH	40	3.05 X10-1 W	BA	SPECFC CONDCTNCE EQUATNS	WHIT BENS	59012	E	3
3.3	E-2 W	K OH	45	3.10 X10-1 W	BA	SPECFC CONDCTNCE EQUATNS	WHIT BENS	59012	E	3
4.20	E-2 W	K OH	45	3.93 X10-1 W	BA	SPECIFIC HEAT	WHIT BENS	60002	T	L
3.3	E-2 W	K OH	50	3.18 X10-1 W	BA	SPECFC CONDCTNCE EQUATNS	WHIT BENS	59012	E	3
3.3	E-2 W	K OH	55	3.31 X10-1 W	BA	SPECFC CONDCTNCE EQUATNS	WHIT BENS	59012	E	3
4.20	E-2 W	K OH	55	4.42 X10-1 W	BA	SPECIFIC HEAT	WHIT BENS	60002	T	L
1.	E-5 N	FINACYANOL CL (DYE)	25	3.40 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
2.5	E-5 N	FINACYANOL CL (DYE)	25	3.88 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
5.	E-5 N	FINACYANOL CL (DYE)	25	4.01 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
1.	E-4 N	FINACYANOL CL (DYE)	25	4.02 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
		0188	25			SEE CMPD NMBR IN ADDITV	SHIN	54005		X

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values – Continued

	Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
0.64	E-2 M BUTANOL-1 2. E O I K OH	10	3.80 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.20	E-1 M BUTANOL-1 2. E O I K OH	10	3.55 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.17	E-1 M BUTANOL-1 2. E O I K OH	10	3.22 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.21	E-1 M BUTANOL-1 2. E O I K OH	10	2.73 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
4.64	E-1 M BUTANOL-1 2. E O I K OH	10	2.29 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.10	E-4 M DECANOL-1 2. E O I K OH	10	3.91 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.13	E-4 M DECANOL-1 2. E O I K OH	10	3.76 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
6.4	E-1 M ETHANOL 2. E O I K OH	10	3.59 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.16	E O M ETHANOL 2. E O I K OH	10	3.32 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.82	E O M ETHANOL 2. E O I K OH	10	2.93 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.50	E O M ETHANOL 2. E O I K OH	10	2.57 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.11	E O M ETHANOL 2. E O I K OH	10	2.20 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
7.0	E-3 M HEXANOL-1 2. E O I K OH	10	3.79 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.32	E-2 M HEXANOL-1 2. E O I K OH	10	3.55 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.03	E-2 M HEXANOL-1 2. E O I K OH	10	3.27 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.94	E-2 M HEXANOL-1 2. E O I K OH	10	2.97 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.90	E-2 M HEXANOL-1 2. E O I K OH	10	2.63 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.08	E-3 M HEPTANOL-1 2. E O I K OH	10	3.83 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.95	E-3 M HEPTANOL-1 2. E O I K OH	10	3.65 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
7.42	E-3 M HEPTANOL-1 2. E O I K OH	10	3.41 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.43	E-2 M HEPTANOL-1 2. E O I K OH	10	3.28 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
7.1	E-4 M OCTANOL-1 2. E O I K OH	10	3.84 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.36	E-3 M OCTANOL-1 2. E O I K OH	10	3.71 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.73	E-3 M OCTANOL-1 2. E O I K OH	10	3.54 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.54	E-3 M OCTANOL-1 2. E O I K OH	10	3.47 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.28	E-1 M PROPANOL-1 2. E O I K OH	10	3.73 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.43	E-1 M PROPANOL-1 2. E O I K OH	10	3.53 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
4.37	E-1 M PROPANOL-1 2. E O I K OH	10	3.18 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
7.05	E-1 M PROPANOL-1 2. E O I K OH	10	2.92 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
9.42	E-1 M PROPANOL-1 2. E O I K OH	10	2.48 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.27	E O M PROPANOL-1 2. E O I K OH	10	2.21 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.63	E-4 M NONANOL-1 2. E O I K OH	10	3.88 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.18	E-4 M NONANOL-1 2. E O I K OH	10	3.80 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
4.65	E-4 M NONANOL-1 2. E O I K OH	10	3.69 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
6.36	E-4 M NONANOL-1 2. E O I K OH	10	3.63 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.1	E O C 0090 2. E O I K OH	25	3.4 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
5.6	E O C 0090 2. E O I K OH	25	3.1 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
9.4	E O C 0090 2. E O I K OH	25	2.8 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	

Concentration units: A – mol %; B – vol % solvent; C – mol % surfactant mixture; D – wt/vol %; E – % saturation; H – wt % solvent; I – mol % surfactant; K – normality counterions; M – molar; N – normal; P – wt %; Q – wt % surfactant; R – varied; S – mol %; T – wt % surfactant mixture; U – mol/l (or kg); W – molar; Y – atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
1.36 E 1 C 0090 2. E O I K OH	25	2.5 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
2.19 E 1 C 0090 2. E O I K OH	25	2.1 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L	
2.51 E 1 C 0090 2. E O I K OH	25	2.0 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
3.32 E 1 C 0090 2. E O I K OH	25	1.8 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
4.30 E 1 C 0090 2. E O I K OH	25	1.5 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
5.91 E 1 C 0090 2. E O I K OH	25	1.3 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
7.58 E 1 C 0090 2. E O I K OH	25	1.1 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.0 E O C 0091 2. E O I K OH	25	2.8 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
2.3 E O C 0091 2. E O I K OH	25	2.0 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
4.4 E O C 0091 2. E O I K OH	25	1.4 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
7.7 E O C 0091 2. E O I K OH	25	1.1 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.21 E 1 C 0091 2. E O I K OH	25	8.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
2.00 E 1 C 0091 2. E O I K OH	25	6.0 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
3.74 E 1 C 0091 2. E O I K OH	25	4.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
5.62 E 1 C 0091 2. E O I K OH	25	3.3 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
E O 0092 2. E O I K OH	25			GRAPH DATA NOT RETRIEVED	SHIN	54005	R	
1.2 E O C 0092 2. E O I K OH	25	7.3 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.9 E O C 0092 2. E O I K OH	25	5.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
3.6 E O C 0092 2. E O I K OH	25	4.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
4.6 E O C 0092 2. E O I K OH	25	3.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.67 E 1 C 0092 2. E O I K OH	25	2.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
3.61 E 1 C 0092 2. E O I K OH	25	1.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
6.18 E 1 C 0092 2. E O I K OH	25	1.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
0296 2. E O I K OH	25			SEE CMPD NMBR IN ADDITV	SHIN	54005	X	
2.3 E O C 0297 2. E O I K OH	25	3.0 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
3.8 E O C 0297 2. E O I K OH	25	2.5 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
6.1 E O C 0297 2. E O I K OH	25	2.2 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.09 E 1 C 0297 2. E O I K OH	25	1.7 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.73 E 1 C 0297 2. E O I K OH	25	1.3 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
2.94 E 1 C 0297 2. E O I K OH	25	9.6 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
5.01 E 1 C 0297 2. E O I K OH	25	6.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
6.87 E 1 C 0297 2. E O I K OH	25	5.6 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
2.68 E-2 M 3-METHYL BUTANOL-1 2. E O I K OH	10	3.80 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
4.47 E-2 M 3-METHYL BUTANOL-1 2. E O I K OH	10	3.53 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
9.04 E-2 M 3-METHYL BUTANOL-1 2. E O I K OH	10	3.20 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.42 E-1 M 3-METHYL BUTANOL-1 2. E O I K OH	10	2.88 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.92 E-1 M 3-METHYL BUTANOL-1 2. E O I K OH	10	2.27 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.68 E-1 M 3-METHYL BUTANOL-1 2. E O I K OH	10	2.00 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
9.7 E O C 0090	25	3.7 X10 ⁻² M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
5.61 E 1 C 0091								
2. E O I K OH								
1.40 E 1 C 0090	25	4.7 X10 ⁻² M	BC	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
3.61 E 1 C 0091								
2. E O I K OH								
1.65 E 1 C 0090	25	5.8 X10 ⁻² M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
2.49 E 1 C 0091								
2. E O I K OH								
1.81 E 1 C 0090	25	6.9 X10 ⁻² M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
1.75 E 1 C 0091								
2. E O I K OH								
1.92 E 1 C 0090	25	8.2 X10 ⁻² M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
1.24 E 1 C 0091								
2. E O I K OH								
2.01 E 1 C 0090	25	9.7 X10 ⁻² M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
8.6 E O C 0091								
2. E O I K OH								
2.07 E 1 C 0090	25	1.2 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
5.7 E O C 0091								
2. E O I K OH								
2.12 E 1 C 0090	25	1.4 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
3.3 E O C 0091								
2. E O I K OH								
2.16 E 1 C 0090	25	1.7 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
1.5 E O C 0091								
2. E O I K OH								
0188	25			SEE CMPD NMBR IN ADDITV	SHIN	54003		X
127 ENTRIES FOR COMPOUND								
COMPOUND NO = 45	MOL WGT -	334.4	SODIUM P 1	METHYL DECYL BENZENE SULFONATE				
		19.0	2.45 X10 ⁻³ W	BC	KRAFFT POINT SOLUBILITY	GERS	57012	T L
		35	2.53 X10 ⁻³ W	BA	SPECFC CONDUCTNCE GRAPH	GERS	57012	T 2
		40	1.90 X10 ⁻³ W	BC	SURFACE TENSION LOG PLOT	GERS	57012	T L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 46	MOL WGT -	362.4	SODIUM P 1	METHYL DODECYL BENZENE SULFONATE				
		27.7	7.1 X10 ⁻⁴ W	CC	KRAFFT POINT SOLUBILITY	GERS	57012	T L
		35	7.2 X10 ⁻⁴ W	CA	SPECFC CONDUCTNCE GRAPH	GERS	57012	T 3
		40	6.2 X10 ⁻⁴ W	CD	SURFACE TENSION MINIMUM	GERS	57012	T L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 47	MOL WGT -	390.5	SODIUM P 1	METHYL TETRADECYL BENZENE SULFONATE				
		32.6	5.0 X10 ⁻⁴ W	BC	KRAFFT POINT SOLUBILITY	GERS	57012	T L
		40	2.2 X10 ⁻⁴ W	BC	SURFACE TENSION LOG PLOT	GERS	57012	T L
		40	3.1 X10 ⁻⁴ W	BB	SPECFC CONDUCTNCE GRAPH	GERS	57012	T 3
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 48	MOL WGT -	418.6	SODIUM P 1	METHYL HEXADECYL BENZENE SULFONATE				
		45.5	1.4 X10 ⁻⁴ W	CD	KRAFFT POINT SOLUBILITY	GERS	57012	T L
		50	1.3 X10 ⁻⁴ W	CC	SPECFC CONDUCTNCE GRAPH	GERS	57012	T L
		50	1.4 X10 ⁻⁴ W	CD	SURFACE TENSION MINIMUM	GERS	57012	T L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 49	MOL WGT -	292.3	SODIUM P	OCTYL BENZENE SULFONATE				
		25	1.11 X10 ⁻² W	CD	SURFACE TENSION MINIMUM	GERS	57012	T L
		25	1.1 X10 ⁻² M	CE	EQUIV COND 1ST DEVIATION	LING TART	43001	T L
		25	1.23 X10 ⁻² W	CB	EQUIV CONDUCTNCE GRAPH	LING TART	43001	P L
		35	1.47 X10 ⁻² W	CA	SPECFC CONDUCTNCE GRAPH	GERS	57012	T 3
		40	1.2 X10 ⁻² M	CE	EQUIV COND 1ST DEVIATION	LING TART	43001	T L
		40	1.32 X10 ⁻² W	CB	EQUIV CONDUCTNCE GRAPH	LING TART	43001	P L
		60	1.63 X10 ⁻² W	CB	EQUIV CONDUCTNCE GRAPH	LING TART	43001	P L
		60	1.5 X10 ⁻² M	CE	EQUIV COND 1ST DEVIATION	LING TART	43001	T L
		UNK	1.12 X10 ⁻² M	CG	METHOD NOT CITED	KLEV CARR	56001	T L
9 ENTRIES FOR COMPOUND								
COMPOUND NO = 50	MOL WGT -	320.4	SODIUM P	DECYL BENZENE SULFONATE				
		50	1.47 X10 ⁻² W	CA	SPECFC CONDUCTNCE GRAPH	GERS	57012	T 3
		50	3.14 X10 ⁻³ W	CD	SURFACE TENSION MINIMUM	GERS	57012	T L
		UNK	3.5 X10 ⁻³ M	CG	METHOD NOT CITED	KLEV CARR	56001	T L
3 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 51 MOL WGT -		348.4	SODIUM P DODECYL BENZENE SULFONATE					
	23	1.6 X10-3 M	HG	STREAMING CURRENT	CARD	66011	T	L
	60	1.20 X10-3 W	CA	SPECFC CONDUCTNCE GRAPH	GERS	57012	T	3
	60	1.26 X10-3 W	CB	EQUIV CONDUCTNCE GRAPH	LING TART	43001	P	L
	60	1.2 X10-3 M	CE	EQUIV COND 1ST DEVIATION	LING TART	43001	T	L
	UNK	2.8 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	FAVA EYRI	56016	T	L
	UNK	2.8 X10-3 M	CG	VISUAL SPCTR CHNGE RHD6	FAVA EYRI	56016	T	L
	UNK	1.0 X10-3 M	CB	SURFACE TENSION LOG PLOT	FAVA EYRI	56016	T	L
7 ENTRIES FOR COMPOUND								
COMPOUND NO = 52 MOL WGT -		388.5	SODIUM HEXADECYL MONO OXYETHYLENE SULFATE					
	25	2.2 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL BIST	58003	T	L
	25	2.1 X10-4 M	CC	SURFACE TENSION LOG PLOT	WEIL BIST	58003	T	L
	25	2.34 X10-4 M	CC	EQUIV CONDUCTNCE GRAPH	WEIL BIST	58003	T	L
	50	2.4 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 53 MOL WGT -		432.6	SODIUM HEXADECYL DI OXYETHYLENE SULFATE					
	25	1.4 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL BIST	58003	T	L
	25	1.2 X10-4 M	CC	SURFACE TENSION LOG PLOT	WEIL BIST	58003	T	L
	25	1.34 X10-4 M	CC	EQUIV CONDUCTNCE GRAPH	WEIL BIST	58003	T	L
	50	1.4 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 54 MOL WGT -		476.6	SODIUM HEXADECYL TRI OXYETHYLENE SULFATE					
	25	1.0 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL BIST	58003	T	L
	25	7.0 X10-5 M	CD	SURFACE TENSION LOG PLOT	WEIL BIST	58003	T	L
	25	1.23 X10-4 M	CC	EQUIV COND MAX BEGINING	WEIL BIST	58003	T	L
	50	1.95 X10-4 M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G	L
	50	1.2 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
5 ENTRIES FOR COMPOUND								
COMPOUND NO = 55 MOL WGT -		520.7	SODIUM HEXADECYL TETRA OXYETHYLENE SULFATE					
	25	8.0 X10-5 M	CD	SURFACE TENSION LOG PLOT	WEIL BIST	58003	T	L
	25	1.0 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL BIST	58003	T	L
	50	1.01 X10-4 M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G	L
	50	1.2 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 56 MOL WGT -		416.6	SODIUM OCTADECYL MONO OXYETHYLENE SULFATE					
	25	1.1 X10-4 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL BIST	58003	T	L
	25	1.9 X10-4 M	BD	SURFACE TENSION LOG PLOT	WEIL BIST	58003	T	L
	50	9.0 X10-5 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 57 MOL WGT -		460.6	SODIUM OCTADECYL DI OXYETHYLENE SULFATE					
	25	7.0 X10-5 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL BIST	58003	T	L
	25	8.0 X10-5 M	BD	SURFACE TENSION LOG PLOT	WEIL BIST	58003	T	L
	50	1.00 X10-4 M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G	L
	50	7.0 X10-5 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 58 MOL WGT -		504.7	SODIUM OCTADECYL TRI OXYETHYLENE SULFATE					
	25	5.0 X10-5 M	CD	SURFACE TENSION LOG PLOT	WEIL BIST	58003	T	L
	25	5.0 X10-5 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL BIST	58003	T	L
	50	6.98 X10-5 M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G	L
	50	7.0 X10-5 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 59 MOL WGT -		548.7	SODIUM OCTADECYL TETRA OXYETHYLENE SULFATE					
	25	4.0 X10-5 M	CD	SURFACE TENSION LOG PLOT	WEIL BIST	58003	T	L
	25	4.0 X10-5 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL BIST	58003	T	L
	50	3.97 X10-5 M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G	L
	50	7.0 X10-5 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 60 MOL WGT -		471.7	TRIETHANOL AMMONIUM HEXADECYL SULFATE					
	50	3.4 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
1 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 61 MOL WGT -		370.5	SODIUM	OLEYL/CIS 9 OCTADECENOYL/	SULFATE			
	25	3.0 X10-4 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
	50	3.50 X10-3 M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G	L
	50	2.9 X10-4 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 62 MOL WGT -		370.5	SODIUM	ELAIDYL/TRANS 9 OCTADECENOYL/SULFATE				
	50	1.8 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 63 MOL WGT -		441.4	SODIUM	9 10 DICHLORO OCTADECYL	SULFATE			
	25	3.1 X10-4 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
	50	2.6 X10-4 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 64 MOL WGT -		372.5	SODIUM	OCTADECYL 1	SULFATE			
	40.0	1.65 X10-4 M	BE	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L
	40.0	3.0 X10-4 M	BD	EQUIV CONDUCTNCE GRAPH	EVAN	56006	KL	L
	50	1.7 X10-4 M	CD	EQUIV CONDUCTNCE GRAPH	LANG	53005	T	L
	50	2.31 X10-4 M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G	L
	50	1.9 X10-4 M	BB	INTERFACIAL TENSION LOGM	KLIN LANG	57022	T	L
	50	2.3 X10-4 M	BB	SURFACE TENSION LOG PLOT	KLIN LANG	57022	T	L
	50	1.1 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
	50	1.1 X10-4 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	63013	T	L
	UNK	1.0 X10-2 D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
		2.68 X10-4 M						M
E 0 0001				GRAPH DATA NOT RETRIEVED	LANG	53005		R
11 ENTRIES FOR COMPOUND								
COMPOUND NO = 65 MOL WGT -		499.7	TRIETHANOLAMMONIUM	OCTADECYL 1	SULFATE			
	50	7.0 X10-5 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	59004	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 66 MOL WGT -		232.2	SODIUM	OCTYL 2	SULFATE			
	40.0	1.80 X10-1 M	BB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 67 MOL WGT -		288.3	SODIUM	DODECYL 2	SULFATE			
	55	2.82 X10-1 D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T	L
		9.781X10-3 M						M
2.22 E 1 Q N-C10 GLYCEROL ETHER	55	1.76 X10-1 D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T	L
		6.104X10-3 M						M
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 68 MOL WGT -		302.3	SODIUM	TRIDECYL 2	SULFATE			
	40.0	6.50 X10-3 M	BB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 69 MOL WGT -		330.4	SODIUM	PENTADECYL 2	SULFATE			
	40.0	1.71 X10-3 M	BB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 70 MOL WGT -		358.5	SODIUM	HEPTADECYL 2	SULFATE			
	40.0	4.9 X10-4 M	BC	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 71 MOL WGT -		372.5	SODIUM	OCTADECYL 2	SULFATE			
	40.0	2.6 X10-4 M	BC	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 72 MOL WGT -		274.3	SODIUM	UNDECYL 3	SULFATE			
	40.0	2.89 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3
	RM	3.88 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	WINS	48008	T	L
2 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; L—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 73 MOL WGT -	316.4	SODIUM TETRADECYL 3 SULFATE						
	40 4.3 X10-3 M	CB	UNSPECIFIED CONDUCTANCE	WINS	48008	L	L	
	40.0 4.30 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3	
	60 4.85 X10-3 M	CB	UNSPECIFIED CONDUCTANCE	WINS	48008	L	L	
	RM 4.53 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	WINS	48008	T	L	
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 74 MOL WGT -	330.4	SODIUM PENTADECYL 3 SULFATE						
	40.0 2.20 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 75 MOL WGT -	344.4	SODIUM HEXADECYL 4 SULFATE						
	40.0 1.72 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 76 MOL WGT -	372.5	SODIUM OCTADECYL 4 SULFATE						
	40.0 4.5 X10-4 M	CC	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 77 MOL WGT -	316.4	SODIUM TETRADECYL 5 SULFATE						
	40 6.9 X10-3 M	CB	UNSPECIFIED CONDUCTANCE	WINS	48008	L	L	
	40.0 6.75 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L	
	60 7.95 X10-3 M	CB	UNSPECIFIED CONDUCTANCE	WINS	48008	L	L	
	RM 7.95 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	WINS	48008	T	L	
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 78 MOL WGT -	330.4	SODIUM PENTADECYL 5 SULFATE						
	40.0 3.40 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 79 MOL WGT -	386.5	SODIUM NONADECYL 5 SULFATE						
	40.0 3.3 X10-4 M	CC	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 80 MOL WGT -	274.3	SODIUM UNDECYL 6 SULFATE						
	40.0 8.3 X10 2 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 81 MOL WGT -	344.4	SODIUM HEXADECYL 6 SULFATE						
	40.0 2.35 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 82 MOL WGT -	372.5	SODIUM OCTADECYL 6 SULFATE						
	40.0 7.2 X10-4 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 83 MOL WGT -	302.3	SODIUM TRIDECYL 7 SULFATE						
	40.0 1.93 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 84 MOL WGT -	316.4	SODIUM TETRADECYL 7 SULFATE						
	40 9.7 X10-3 M	CB	UNSPECIFIED CONDUCTANCE	WINS	48008	L	L	
	40.0 9.70 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	L	
	60 1.15 X10-2 M	CB	UNSPECIFIED CONDUCTANCE	WINS	48008	L	L	
	RM 1.58 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	WINS	48008	T	L	
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 85 MOL WGT -	330.4	SODIUM PENTADECYL 8 SULFATE						
	40.0 6.65 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 86 MOL WGT -	344.4	SODIUM HEXADECYL 8 SULFATE						
	40.0 4.25 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T	3	
1 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 87 MOL WGT -	358.5	SODIUM HEPTADECYL 9 SULFATE						
1 ENTRIES FOR COMPOUND	40.0	2.35 X10 ⁻³ M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T L	
COMPOUND NO = 88 MOL WGT -	386.5	SODIUM 1 NONYL DECYL SULFATE						
1 ENTRIES FOR COMPOUND	40.0	9.4 X10 ⁻⁴ M	CB	SPECFC CONDUCTNCE GRAPH	EVAN	56006	T L	
COMPOUND NO = 89 MOL WGT -	526.8	SODIUM 1 TETRADECYL PENTADECYL SULFATE						
1 ENTRIES FOR COMPOUND	40.0	8. X10 ⁻⁵ M	CG	EQUIV CONDUCTNCE MAXIMUM	EVAN	56006	T L	
COMPOUND NO = 90 MOL WGT -	210.3	POTASSIUM DECANOATE						
				GRAPH DATA NOT RETRIEVED	KLEV	46007		R
	25	9.9 X10 ⁻² M	DB	REFRACTIVE INDEX	KLEV	48005	T L	
	25	1.00 X10 ⁻¹ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T L	
	25	9.98 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T L	
	25	9.5 X10 ⁻² M	BC	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T L	
	25	9.98 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
	30	1.06 X10 ⁻¹ M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T L	
	45	9.8 X10 ⁻² M	DB	REFRACTIVE INDEX	KLEV	48005	T L	
	45	1.18 X10 ⁻¹ M	DB	REFRACTIVE INDEX	KLEV	48005	T L	
	50	1.05 X10 ⁻¹ M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T L	
	50	48016		VALUES FRM REF IN CMC	KOLT STRI	49005		R
	UNKN	9.5 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	T L	
0.22 E-1 P BENZENE	25	9.3 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T L	
1.05 E-2 M K CL	25	9.49 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
2.29 E-2 M K CL	25	9.17 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
3.79 E-2 M K CL	25	8.85 X10 ⁻² M	DC	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
5.59 E-2 M K CL	25	8.38 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
7.87 E-2 M K CL	25	7.87 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1.10 E-1 M K CL	25	7.31 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1.51 E-1 M K CL	25	6.45 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
2.27 E-1 M K CL	25	5.68 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
3.44 E-1 M K CL	25	4.69 X10 ⁻² M	DC	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
3.86 E-1 M K CL	25	4.29 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1. E O N K CL	50	2.2 X10 ⁻² M	DC	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L	
E O K OH	0	1.68 X10 ⁻¹ W	CB	VAPR PRESURE LOWERING	HUFF MCBA	51004	T L	
2. E O I K OH	10	1.09 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
4.4 E-2 N K OH	20	7. X10 ⁻² M	XG	VISCOSITY MINIMUM	SATA TYUZ	53006	T L	
4.4 E-2 N K OH	20	5.7 X10 ⁻² M	CE	DIFFUSION COEFFICIENT	TYUZ	61025	T L	
4.4 E-2 N K OH	20	1.06 X10 ⁻¹ M	CE	DIFFUSION COEFFICIENT	TYUZ	61025	T L	
2. E O I K OH	25	1.00 X10 ⁻¹ M	BC	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
E O K OH	30	9.8 X10 ⁻² W	CB	VAPR PRESURE LOWERING	HUFF MCBA	51004	T L	
E O K OH	50	1.15 X10 ⁻¹ W	CB	VAPR PRESURE LOWERING	HUFF MCBA	51004	T L	
1. E-1 N K2 SO4	50	8.2 X10 ⁻² M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L	
2. E-1 N K2 SO4	50	6.5 X10 ⁻² M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L	
2. E-1 N K2 SO4	50	4.5 X10 ⁻² M	DC	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L	
	25			SEE CMPD NMBR IN ADDITV	SHIN	54005		X
	UNKN			SEE CMPD NMBR IN ADDITV	CORR HARK	46015		X
1.10 E 1 C 0092	25	5.2 X10 ⁻² M	DC	REFRACTIVE INDEX	KLEV	48005	T L	
3.05 E 1 C 0092	25	1.5 X10 ⁻² M	DD	REFRACTIVE INDEX	KLEV	48005	T L	
4.50 E 1 C 0092	25	1.2 X10 ⁻² M	DD	REFRACTIVE INDEX	KLEV	48005	T L	
	25			SEE CMPD NMBR IN ADDITV	SHIN	54005		X
3.63 E-2 M BUTANOL-1	10	1.01 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2. E O I K OH								
6.74 E-2 M BUTANOL-1	10	9.4 X10 ⁻² M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2. E O I K OH								
9.52 E-2 M BUTANOL-1	10	8.8 X10 ⁻² M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2. E O I K OH								
1.44 E-1 M BUTANOL-1	10	8.1 X10 ⁻² M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2. E O I K OH								
1.80 E-1 M BUTANOL-1	10	7.2 X10 ⁻² M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2. E O I K OH								
2.29 E-1 M BUTANOL-1	10	6.4 X10 ⁻² M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2. E O I K OH								
6.4 E-5 M DECANOL-1	10	1.06 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2. E O I K OH								
1.20 E-4 M DECANOL-1	10	1.02 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2. E O I K OH								
1.64 E-4 M DECANOL-1	10	1.01 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2. E O I K OH								
5.44 E-1 M ETHANOL	10	9.7 X10 ⁻² M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2. E O I K OH								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/ D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mar. Meth.	Method	Authors	Reference	Source	Evaluation
9.9	E-1 M ETHANOL 2. E O I K OH	10	8.9 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.37	E O M ETHANOL 2. E O I K OH	10	8.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.91	E O M ETHANOL 2. E O I K OH	10	6.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.33	E O M ETHANOL 2. E O I K OH	10	6.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.82	E O M ETHANOL 2. E O I K OH	10	5.4 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
9.0	E-3 M HEXANOL-1 2. E O I K OH	10	9.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.60	E-2 M HEXANOL-1 2. E O I K OH	10	8.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.12	E-2 M HEXANOL-1 2. E O I K OH	10	7.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.85	E-2 M HEXANOL-1 2. E O I K OH	10	6.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.70	E-3 M HEPTANOL-1 2. E O I K OH	10	9.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
4.73	E-3 M HEPTANOL-1 2. E O I K OH	10	8.6 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
8.35	E-3 M HEPTANOL-1 2. E O I K OH	10	7.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
7.8	E-4 M OCTANOL-1 2. E O I K OH	10	1.02 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.49	E-3 M OCTANOL-1 2. E O I K OH	10	9.6 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.11	E-3 M OCTANOL-1 2. E O I K OH	10	9.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.70	E-3 M OCTANOL-1 2. E O I K OH	10	8.7 X10-2 M	RG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.30	E-1 M PROPANOL-1 2. E O I K OH	10	9.9 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.35	E-1 M PROPANOL-1 2. E O I K OH	10	8.9 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.51	E-1 M PROPANOL-1 2. E O I K OH	10	8.0 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
4.82	E-1 M PROPANOL-1 2. E O I K OH	10	7.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
6.34	E-1 M PROPANOL-1 2. E O I K OH	10	6.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
8.25	E-1 M PROPANOL-1 2. E O I K OH	10	5.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.91	E-4 M NONANOL-1 2. E O I K OH	10	1.02 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.64	E-4 M NONANOL-1 2. E O I K OH	10	9.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
4.84	E-4 M NONANOL-1 2. E O I K OH	10	9.4 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
5.70	E-4 M NONANOL-1 2. E O I K OH	10	9.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
	2. E O I 0044 K OH	25			SEE CMPD NMBR IN ADDITV	SHIN	54003		X
1.9	E O C 0091 K OH	25	9.4 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
3.8	E O C 0091 K OH	25	8.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
9.0	E O C 0091 K OH	25	7.4 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.55	E 1 C 0091 K OH	25	6.4 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
2.34	E 1 C 0091 K OH	25	5.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
2.80	E 1 C 0091 K OH	25	4.9 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
3.58	E 1 C 0091 K OH	25	4.4 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
4.75	E 1 C 0091 K OH	25	3.9 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
6.80	E 1 C 0091 K OH	25	3.3 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.0	E O C 0092 K OH	25	8.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.7	E O C 0092 K OH	25	7.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
2.5	E O C 0092 K OH	25	5.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
4.2	E O C 0092	25	4.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
6.9	E O C 0092	25	3.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
1.13	E l C 0092	25	2.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
1.78	E l C 0092	25	2.0 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
3.18	E l C 0092	25	1.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
	0296	25			SEE CMPD NMBR IN ADDITV	SHIN	54005	X
	2. E O I K OH							
4.8	E O C 0297	25	9.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
1.15	E l C 0297	25	8.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
1.78	E l C 0297	25	8.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
2.53	E l C 0297	25	7.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
3.28	E l C 0297	25	7.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
4.39	E l C 0297	25	6.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
5.36	E l C 0297	25	6.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
6.65	E l C 0297	25	5.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
8.18	E l C 0297	25	5.3 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
	2. E O I K OH							
9.6	E-3 M 3-METHYL BUTANOL-1	10	1.06 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I K OH							
1.99	E-2 M 3-METHYL BUTANOL-1	10	9.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I K OH							
3.03	E-2 M 3-METHYL BUTANOL-1	10	9.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I K OH							
4.60	E-2 M 3-METHYL BUTANOL-1	10	8.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I K OH							
5.79	E-2 M 3-METHYL BUTANOL-1	10	8.3 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I K OH							
8.14	E-2 M 3-METHYL BUTANOL-1	10	7.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I K OH							
	0044	25			SEE CMPD NMBR IN ADDITV	SHIN	54003	X
5.9	E O C 0091	25	3.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L
	6.4 E O C 0092							
	2. E O I K OH							
1.24	E l C 0091	25	3.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L
	5.9 E O C 0092							
	2. E O I K OH							
1.94	E l C 0091	25	3.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L
	5.5 E O C 0092							
	2. E O I K OH							
2.74	E l C 0091	25	3.0 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L
	4.9 E O C 0092							
	2. E O I K OH							
3.62	E l C 0091	25	3.0 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L
	4.3 E O C 0092							
	2. E O I K OH							
4.59	E l C 0091	25	3.0 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L
	3.7 E O C 0092							
	2. E O I K OH							
5.68	E l C 0091	25	2.9 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L
	2.9 E O C 0092							
	2. E O I K OH							
6.92	E l C 0091	25	2.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L
	2.1 E O C 0092							
	2. E O I K OH							
8.35	E l C 0091	25	2.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L
	1.1 E O C 0092							
	2. E O I K OH							
2.3	E O C 0297	25	9.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
	1.2 E O C 0091							
	2. E O I K OH							
4.9	E O C 0297	25	8.6 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
	2.5 E O C 0091							
	2. E O I K OH							

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol %; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives		Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source Evaluation
8.0	E O C 0297	25	7.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
4.1	E O C 0091							
	2. E O I K OH							
1.17	E 1 C 0297	25	7.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
6.0	E O C 0091							
	2. E O I K OH							
1.61	E 1 C 0297	25	6.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
8.2	E O C 0091							
	2. E O I K OH							
2.14	E 1 C 0297	25	5.9 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
1.09	E 1 C 0091							
	2. E O I K OH							
2.82	E 1 C 0297	25	5.3 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
1.44	E 1 C 0091							
	2. E O I K OH							
3.75	E 1 C 0297	25	4.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
1.91	E 1 C 0091							
	2. E O I K OH							
4.96	E 1 C 0297	25	4.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
2.52	E 1 C 0091							
	2. E O I K OH							
130 ENTRIES FOR COMPOUND								
COMPOUND NO = 91 MOL WGT - 238.4 POTASSIUM DODECANOATE								
			47005		VALUES FRM REF IN CMC	KLEV	48005	R
			47006		VALUES FRM REF IN CMC	KLEV HARK	46005	R
					GRAPH DATA NOT RETRIEVED	KLEV	46007	R
			48016		VALUES FRM REF IN CMC	KOLT STRI	49005	R
15.0	2.35 X10-2 M	DG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T L		
23.5	6.15 X10-1 D	DB	REFRACTIVE INDEX	KLEV	46012	T L		
	2.579X10-2 M							
25	9. X10-1 P	BD	DENSITY	BURY PARR	35008	T L		
	3.7 X10-2 S							
25	2.55 X10-2 M	XG	VISUAL SPCTR CHNGE	KLEV	53010	T L		
25	2.4 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T L		
25.6	2.3 X10-2 M	DG	FOTOMTR SPCTR CHNGE PNCN	CORR HARK	46002	T L		
25.6	2.25 X10-2 M	DG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T L		
25	2.34 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T L		
25	2.55 X10-2 M	DC	REFRACTIVE INDEX	KLEV	47005	T L		
25	2.5 X10-2 M	BG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T L		
26	2.35 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47006	T L		
26	2.34 X10-2 M	DG	VISUAL SPCTR CHNGE RHD6	CORR HARK	47006	T L		
26	2.30 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L		
30	2.60 X10-2 M	DB	REFRACTIVE INDEX	KLEV	48005	T L		
30	2.35 X10-2 M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T L		
30	2.35 X10-2 M	DB	FOTOMTR SOLUBLZTN OROT	KOLT STRI	48016	T L		
30	2.3 X10-2 M	DC	UNSPEC SOLUBLZTN PDMAB	KOLT JOHN	48025	T L		
30	2.2 X10-2 M	DC	ELECTROMOTIVE FORCE	KOLT JOHN	48025	T L		
30	2.47 X10-2 M	DB	FOTOMTR SOLUBLZTN AZBZ	KOLT STRI	49005	T L		
35	8. X10-1 P	BD	DENSITY	BURY PARR	35008	T L		
	3.3 X10-2 S							
35.8	2.13 X10-2 M	DG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T L		
35	1.9 X10-2 M	XG	VELOCITY OF SOUND	KUPP SURY	65028	T L		
35	2.70 X10-2 M	DC	REFRACTIVE INDEX	KLEV	47005	T L		
45.0	2.08 X10-2 M	DG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T L		
45	3.05 X10-2 M	DC	REFRACTIVE INDEX	KLEV	47005	T L		
50	2.45 X10-2 M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T L		
50	2.85 X10-2 M	DB	FOTOMTR SOLUBLZTN OROT	KOLT STRI	48016	T L		
50	2.14 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	RAIS	52016	T L		
50	2.1 X10-2 M	DC	FOTOMTR SOLUBLZTN AZBZ	KOLT STRI	49005	T L		
55.0	2.08 X10-2 M	DG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T L		
55	3.50 X10-2 M	DC	REFRACTIVE INDEX	KLEV	47005	T L		
60	2.8 X10-2 M	DG	SOLUBLZTN TOLUENE	DEMC DUMA	60032	T L		
60	5.8 X10-1 D	DG	SOLUBLZTN TOLUENE	DEMC	60034	T L		
	2.43 X10-2 M							
60	2.3 X10-2 M	DC	FOTOMTR SOLUBLZTN OROT	MERR GETT	48024	T L		
65	4.20 X10-2 M	DC	REFRACTIVE INDEX	KLEV	47005	T L		
UNK	6.2 X10-1 D	DG	VISUAL SPCTR CHNGE PNCN	DEMC	60034	T L		
	2.60 X10-2 M							
UNK	2.33 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L		
UNK	6.0 X10-1 D	DG	METHOD NOT CITED	DEMC	62037	T L		
	2.51 X10-2 M							
UNK	2.40 X10-2 M	DG	METHOD NOT CITED	HARK MITT	49006	T L		
UNK	2.55 X10-2 M	DG	METHOD NOT CITED	ARRI PATT	53003	T L		
2.2	E-1 P BENZENE	25	2.0 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T L
4.4	E-2 P BENZENE	UNK	2.30 X10-2 M	DG	METHOD NOT CITED	HARK MITT	49006	T L
6.1	E-2 P BENZENE	UNK	2.34 X10-2 M	DG	METHOD NOT CITED	HARK MITT	49006	T L
1.00	E-1 P BENZENE	UNK	2.30 X10-2 M	DG	METHOD NOT CITED	HARK MITT	49006	T L

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/ D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molal; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
1.39 E-1 P	BENZENE	UNK	2.29 X10-2 M	DG	METHOD NOT CITED	HARK MITT	49006	T L
1.50 E-1 P	BENZENE	UNK	2.30 X10-2 M	DG	METHOD NOT CITED	HARK MITT	49006	T L
2.65 E-2 M	K BR	25	1.55 X10-2 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
1.735E-1 M	K BR	25	7.0 X10-3 M	DB	REFRACTIVE INDEX	KLEV	48006	T L
2.52 E-2 M	K CL	25	1.59 X10-2 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
6.70 E-2 M	K CL	25	1.19 X10-2 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
1.005E-1 M	K CL	25	1.02 X10-2 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
2.124E-1 M	K CL	25	7.1 X10-3 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
3.825E-1 M	K CL	25	4.8 X10-3 M	DC	REFRACTIVE INDEX	KLEV	48005	T L
5.014E-1 M	K CL	25	4.1 X10-3 M	DC	REFRACTIVE INDEX	KLEV	48005	T L
8.380E-3 M	K CL	26	1.97 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.321E-2 M	K CL	26	1.76 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.680E-2 M	K CL	26	1.69 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
3.872E-2 M	K CL	26	1.29 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
4.217E-2 M	K CL	26	1.25 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
4.263E-2 M	K CL	26	1.23 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
5.471E-2 M	K CL	26	1.12 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
6.466E-2 M	K CL	26	1.07 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
6.631E-2 M	K CL	26	1.01 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
7.466E-2 M	K CL	26	9.92 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.038E-1 M	K CL	26	8.44 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.062E-1 M	K CL	26	8.30 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.199E-1 M	K CL	26	7.96 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.485E-1 M	K CL	26	7.48 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.739E-1 M	K CL	26	5.77 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
2.411E-1 M	K CL	26	5.47 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
2.617E-1 M	K CL	26	5.27 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
3.142E-1 M	K CL	26	4.58 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
3.335E-1 M	K CL	26	4.64 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
4.338E-1 M	K CL	26	3.53 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
5.927E-1 M	K CL	26	3.48 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1. E O N	K CL	30	2.1 X10-3 M	DC	FOTOMTR SOLUBLZTN OROT	KOLT STRI	49005	T L
1. E O N	K CL	30	2.3 X10-3 M	DC	FOTOMTR SOLUBLZTN AZBZ	KOLT STRI	49005	T L
1. E O N	K CL	30	2.4 X10-3 M	DC	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
5. E-2 N	K CL	50	1.77 X10-2 M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
1. E-1 N	K CL	50	1.1 X10-2 M	DD	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
6. E-1 N	K CL	60	4. X10-3 M	DE	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49006	T L
1. E O N	K CL	50	2.6 X10-3 M	DC	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
1. E O N	K CL	50	3. X10-3 M	DE	FOTOMTR SOLUBLZTN OROT	KOLT STRI	49005	T L
1. E O N	K CL	50	2.3 X10-3 M	DC	FOTOMTR SOLUBLZTN AZBZ	KOLT STRI	49005	T L
1.66 E-2 M	K I	25	1.81 X10-2 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
2.615E-1 M	K I	25	6.3 X10-3 M	DC	REFRACTIVE INDEX	KLEV	48005	T L
3.06 E-2 M	K N03	25	1.54 X10-2 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
1.38 E-1 M	K N03	25	8.8 X10-3 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
3.33 E-1 M	K N03	25	5.3 X10-3 M	DC	REFRACTIVE INDEX	KLEV	48005	T L
1.0 E-1 M	K N03	30	1.2 X10-2 M	DD	UNSPEC SOLUBLZTN PDMAB	KOLT JOHN	48025	T L
1.0 E-1 M	K N03	30	1.2 X10-2 M	DD	ELECTROMOTIVE FORCE	KOLT JOHN	48025	T L
5.0 E-1 M	K N03	30	5.5 X10-3 M	DC	ELECTROMOTIVE FORCE	KOLT JOHN	48025	T L
5.0 E-1 M	K N03	30	5. X10-3 M	DD	UNSPEC SOLUBLZTN PDMAB	KOLT JOHN	48025	T L
1. E-1 N	K N03	50	1.17 X10-2 M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
1. E O N	K N03	50	2.5 X10-3 M	DC	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
1.66 E-2 M	K OH	UNK			GRAPH DATA NOT RETRIEVED	DEMC	62037	R
4. E O I	K OH	0	3.75 X10-2 W	CB	VAPR PRESURE LOWERING	HUFF MCBA	51004	T L
4. E O I	K OH	0	3.5 X10-2 M	CC	SPECFC CONDUCTNCE GRAPH	BRAD HUFF	48004	T L
4. E O I	K OH	0	3.3 X10-2 W	CD	FREEZING POINT	FINE MCBA	48011	K L
2. E O I	K OH	10	2.91 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	S L
2. E O I	K OH	25	2.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
4. E O I	K OH	25	2.4 X10-2 M	CC	SPECFC CONDUCTNCE GRAPH	BRAD HUFF	48004	T L
4. E O I	K OH	25	2.4 X10-2 M	CB	EQUIV CONDUCTNCE GRAPH	BRAD MCBA	48009	T L
4. E O I	K OH	25	1.7 X10-2 W	CG	VISUAL SPCTR CHNGE RHDG	FINE MCBA	48011	T L
4. E O I	K OH	25	2.5 X10-2 W	CD	VAPR PRESURE LOWERING	FINE MCBA	48011	T L
1. E O N	K OH	30	2.05 X10-2 W	CB	VAPR PRESURE LOWERING	HUFF MCBA	51004	T L
1. E O N	K OH	30	2.6 X10-3 M	CC	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
1. E O N	K OH	30	2.7 X10-3 M	CC	FOTOMTR SOLUBLZTN OROT	KOLT STRI	49005	T L
1. E O N	K OH	50	2.05 X10-2 W	CB	VAPR PRESURE LOWERING	HUFF MCBA	51004	T L
4. E O I	K OH	50	2.0 X10-2 M	CC	SPECFC CONDUCTNCE GRAPH	BRAD HUFF	48004	T L
4. E O I	K OH	70	2.2 X10-2 M	CC	SPECFC CONDUCTNCE GRAPH	BRAD HUFF	48004	T L
4. E O I	K OH	90	3.1 X10-2 M	CC	SPECFC CONDUCTNCE GRAPH	BRAD HUFF	48004	T L
1.87 E-2 M	K4 P207	PYRO	8.8 X10-3 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
5.07 E-2 M	K4 P207	PYRO	6.9 X10-3 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
7.42 E-2 M	K4 P207	PYRO	5.3 X10-3 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
1.88 E-2 M	K2 S04		1.41 X10-2 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
5.25 E-2 M	K2 S04		1.03 X10-2 M	DB	REFRACTIVE INDEX	KLEV	48005	T L
1.38 E 0 M	K2 S04		5.9 X10-3 M	DC	REFRACTIVE INDEX	KLEV	48005	T L
7.05 E-3 M	K2 S04		1.74 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.76 E-2 M	K2 S04		1.33 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
2.92 E-2 M	K2 S04		1.10 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
4.66	E-2 M	K2 S04	26	9.12 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
6.57	E-2 M	K2 S04	26	7.70 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.04	E-1 M	K2 S04	26	5.94 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.42	E-1 M	K2 S04	26	4.84 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.87	E-1 M	K2 S04	26	4.25 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.	E-1 N	K2 S04	50	1.1 X10-2 M	DD	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
5.	E-1 N	K2 S04	50	4.5 X10-3 M	DC	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
	E O	K2 S04	UNK			GRAPH DATA NOT RETRIEVED	DEMC	62037	R
4.	E 2 I	NA CL	UNK	3.2 X10-1 D	DG	METHOD NOT CITED	DEMC	62037	T L
				1.34 X10-2 M					M
5.18	E-3 M	NA4 P207 PYRO	26	1.65 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
1.39	E-2 M	NA4 P207 PYRO	26	1.10 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
2.15	E-2 M	NA4 P207 PYRO	26	8.56 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L
3.05	E-2 M	NA4 P207 PYRO	26	7.47 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HAR2	47010	T L
4.	E 2 I	NA2 S04	UNK	2.6 X10-1 D	DG	METHOD NOT CITED	DEMC	62037	T L
				1.09 X10-2 M					M
2.5	E-2 M	NA2 SI03 META	60	1.3 X10-2 M	HD	FOTOMTR SOLUBLZTN OROT	MERR GETT	48024	K L
1.25	E-2 M	SI02/NA20=1.60	60	1.8 X10-2 M	HD	FOTOMTR SOLUBLZTN OROT	MERR GETT	48024	T L
2.5	E-2 M	SI02/NA20 = 1.60	60	1.4 X10-2 M	HD	FOTOMTR SOLUBLZTN OROT	MERR GETT	48024	T L
1.0	E 1	PH OF SOLUTION	UNK	2.5 X10-2 M	BG	METHOD NOT CITED	KLEV CARR	56001	T L
1.	E-5 M	FINACRYANOL CL (DYE)	25.8	2.17 X10-2 M	DG	FOTOMTR SPCTR CHNGE PNCN	CORR KLEV	46010	T L
1.	E-4 M	FINACRYANOL CL (DYE)	25.8	2.35 X10-2 M	DG	FOTOMTR SPCTR CHNGE PNCN	CORR KLEV	46010	T L
		0001				SEE CMPD NMBR IN ADDITV	CORR HARK	46015	X
		0044	25			SEE CMPD NMBR IN ADDITV	SHIN	54005	X
		0090	25			SEE CMPD NMBR IN ADDITV	SHIN	54005	X
7.0	E O C	0090	UNK	2.39 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
1.18	E 1 C	0090	UNK	2.48 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
2.51	E 1 C	0090	UNK	2.71 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
2.79	E 1 C	0090	UNK	2.83 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
3.29	E 1 C	0090	UNK	2.92 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
3.95	E 1 C	0090	UNK	3.12 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
4.92	E 1 C	0090	UNK	3.41 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
5.67	E 1 C	0090	UNK	3.61 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
6.20	E 1 C	0090	UNK	3.83 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
6.90	E 1 C	0090	UNK	4.20 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
7.68	E 1 C	0090	UNK	4.82 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
8.14	E 1 C	0090	UNK	5.2 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
8.63	E 1 C	0090	UNK	5.9 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
9.32	E 1 C	0090	UNK	7.1 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G L
1.52	E 1 C	0092	25	1.4 X10-2 M	DD	REFRACTIVE INDEX	KLEV	48005	T L
3.01	E 1 C	0092	25	1.1 X10-2 M	DD	REFRACTIVE INDEX	KLEV	48005	T L
4.52	E 1 C	0092	25	1.0 X10-2 M	DD	REFRACTIVE INDEX	KLEV	48005	T L
6.45	E 1 C	0092	25	7.8 X10-3 M	DC	REFRACTIVE INDEX	KLEV	48005	T L
0.92	E-2 M	BUTANOL-1	10	2.46 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
1.65	E-1 M	BUTANOL-1	10	2.22 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
2.42	E-1 M	BUTANOL-1	10	1.95 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
3.54	E-1 M	BUTANOL-1	10	1.58 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
4.20	E-1 M	BUTANOL-1	10	1.21 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
4.96	E-1 M	BUTANOL-1	10	1.00 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
4.9	E-5 M	DECANOL-1	10	2.81 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
8.1	E-5 M	DECANOL-1	10	2.76 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
1.56	E-4 M	DECANOL-1	10	2.62 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
4.01	E-1 M	ETHANOL	10	2.74 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
7.62	E-1 M	ETHANOL	10	2.61 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
1.14	E O M	ETHANOL	10	2.32 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
1.67	E O M	ETHANOL	10	2.14 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
2.24	E O M	ETHANOL	10	1.92 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
7.1	E-3 M	HEXANOL-1	10	2.60 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
9.3	E-3 M	HEXANOL-1	10	2.53 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							
1.31	E-2 M	HEXANOL-1	10	2.40 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L
	2. E O I	K OH							

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions: M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
1.99 E-2 M HEXANOL-1 2. E O I K OH	10	2.18 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.70 E-2 M HEXANOL-1 2. E O I K OH	10	1.85 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.61 E-2 M HEXANOL-1 2. E O I K OH	10	1.58 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.17 E-3 M HEPTANOL-1 2. E O I K OH	10	2.73 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
4.12 E-3 M HEPTANOL-1 2. E O I K OH	10	2.58 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.00 E-2 M HEPTANOL-1 2. E O I K OH	10	1.88 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1. E-1 K K ION 1.00 E 1 PH OF SOLUTION	UNK	1.37 X10-2 M	CB	SURFACE TENSION LOG PLOT	ROE BRAS	54013	T L	
4. E O I K OH 1.4 E-1 I N-HEXANE	0	2.8 X10-2 W	CD	FREEZING POINT	PINE MCBA	48011	T L	
4. E-2 K NA CL 1.05 E 1 PH OF SOLUTION	20	1.7 X10-2 M	BC	INTERFACIAL TENSION LOGM	V VO	60025	T L	
7.15 E-4 M OCTANOL-1 2. F O I K OH	10	2.65 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
9.30 E-4 M OCTANOL-1 2. E O I K OH	10	2.58 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.27 E-3 M OCTANOL-1 2. E O I K OH	10	2.40 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.84 E-3 M OCTANOL-1 2. E O I K OH	10	2.32 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.02 E-1 M PROPANOL-1 2. E O I K OH	10	2.70 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.96 E-1 M PROPANOL-1 2. E O I K OH	10	2.59 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.56 E-1 M PROPANOL-1 2. E O I K OH	10	2.44 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
5.03 E-1 M PROPANOL-1 2. E O I K OH	10	2.28 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
6.95 E-1 M PROPANOL-1 2. E O I K OH	10	2.09 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
0.00 E-1 M PROPANOL-1 2. E O I K OH	10	1.82 X10-2 M	BC	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
9.80 E-1 M PROPANOL-1 2. E O I K OH	10	1.67 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.39 E-4 M NONANOL-1 2. E O I K OH	10	2.79 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2.70 E-4 M NONANOL-1 2. E O I K OH	10	2.69 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
3.88 E-4 M NONANOL-1 2. E O I K OH	10	2.61 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
2. E O I K OH 0296	25			SEE CMPD NMBR IN ADDITV	SHIN	54005		X
2. E O I K OH 0297	25			SEE CMPD NMBR IN ADDITV	SHIN	54003		X
2.76 E-2 M 3-METHYL BUTANOL-1 2. E O I K OH	10	2.67 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
6.20 E-2 M 3-METHYL BUTANOL-1 2. E O I K OH	10	2.31 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.02 E-1 M 3-METHYL BUTANOL-1 2. E O I K OH	10	1.91 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.38 E-1 M 3-METHYL BUTANOL-1 2. E O I K OH	10	1.61 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
1.71 E-1 M 3-METHYL BUTANOL-1 2. E O I K OH	10	1.45 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T L	
0044	25			SEE CMPD NMBR IN ADDITV	SHIN	54003		X
0090	25			SEE CMPD NMBR IN ADDITV	SHIN	54003		X
0090	25			SEE CMPD NMBR IN ADDITV	SHIN	54003		X

217 ENTRIES FOR COMPOUND

COMPOUND NO =	92	MOL WGT =	266.5	POTASSIUM TETRADECANOATE
			47005	VALUES FRM REF IN CMC
	25	6.3	X10-3 M	CG VISUAL SPCTR CHNGE PNCN
	25.6	6.0	X10-3 M	DG FOTOMTR SPCTR CHNGE PNCN
	25.8	6.4	X10-3 M	DG FOTOMTR SPCTR CHNGE PNCN
	25.6	6.4	X10-3 M	DG FOTOMTR SPCTR CHNGE PNCN
	25	5.9	X10-3 M	DG VISUAL SPCTR CHNGE PNCN
	25	6.6	X10-3 M	DC REFRACTIVE INDEX
	25	5.8	X10-3 M	BG UNSPEC SPCTR CHNG PNCN
	30	7.0	X10-3 M	DB FOTOMTR SOLUBLZTN PDMAE
	35.8	5.7	X10-3 M	DG FOTOMTR SPCTR CHNGE PNCN
				KLEV 48005 R
				KLEV 50003 T L
				CORR HARK 46002 T L
				CORR KLEV 46010 T L
				KLEV 47004 T L
				HERZ 52015 T L
				KLEV 47005 T L
				KLEV 58011 T L
				KOLT STRI 48016 T L
				CORR HARK 46002 T L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
	35.8	5.7 X10 ⁻³ M	DG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T	L
	35	7.0 X10 ⁻³ M	DC	REFRACTIVE INDEX	KLEV	47005	T	L
	45.0	5.5 X10 ⁻³ M	DG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T	L
	45	7.4 X10 ⁻³ M	DC	REFRACTIVE INDEX	KLEV	47005	T	L
	50	7.2 X10 ⁻³ M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T	L
	50	5. X10 ⁻³ M	DE	FOTOMTR SOLUBLZTN PDMAB	KOLT JOHN	46006	T	L
	50	48016		VALUES FRM REF IN CMC	KOLT STRI	49005		R
	55.0	5.5 X10 ⁻³ M	DG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T	L
	55	7.9 X10 ⁻³ M	DC	REFRACTIVE INDEX	KLEV	47005	T	L
	65	8.6 X10 ⁻³ M	DC	REFRACTIVE INDEX	KLEV	47005	T	L
	UNK	3. X10 ⁻³ M	DE	ELECTROMOTIVE FORCE	CARR JOHN	47013	T	L
	UNK	5. X10 ⁻³ M	DE	FOTOMTR SOLUBLZTN PDMAB	CARR JOHN	47013	T	L
	UNK	6.4 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	CORR HARK	46015	G	L
	UNK	6.6 X10 ⁻³ M	DG	METHOD NOT CITED	ARRI PATT	53003	T	L
8. E-3 P BENZENE	25	6.2 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
1.5 E-2 P BENZENE	25	6.1 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
2.7 E-2 P BENZENE	25	6.1 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	50003	G	L
4.0 E-2 P BENZENE	25	6.0 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
5.4 E-2 P BENZENE	25	5.9 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
6.1 E-2 P BENZENE	25	5.9 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	50003	G	L
8.5 E-2 P BENZENE	25	5.7 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
8.7 E-2 P BENZENE	25	5.9 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
1.04 E-1 P BENZENE	25	5.6 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	50003	G	L
1.08 E-1 P BENZENE	25	5.7 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
1.31 E-1 P BENZENE	25	5.6 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
1.55 E-1 P BENZENE	25	5.4 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
1.82 E-1 P BENZENE	25	5.2 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	50003	G	L
2.20 E-1 P BENZENE	25	5.1 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T	L
2.81 E-1 P BENZENE	25	5.1 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
3.35 E-1 P BENZENE	25	4.9 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
3.93 E-1 P BENZENE	25	5.1 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	G	L
5. E-2 N K CL	50	5.3 X10 ⁻³ M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T	L
5. E-1 N K CL	50	1.5 X10 ⁻³ M	DD	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T	L
2. E O I K OH	18	7.04 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
2. E O I K OH	25	7. X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G	L
4. E O I K OH	25	6. X10 ⁻³ W	CG	VISUAL SPCTR CHNGE RHD6	FINE MCBA	48011	T	L
E O K OH	30	4. X10 ⁻³ W	CE	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
E O K OH	50	5. X10 ⁻³ W	CE	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
1. E-3 N K OH	UNK	7. X10 ⁻³ M	BG	METHOD NOT CITED	KLEV CARR	56001	T	L
1. E-2 N K OH	UNK	6. X10 ⁻³ M	BG	METHOD NOT CITED	KLEV CARR	56001	T	L
1. E-1 N K OH	UNK	4.5 X10 ⁻³ M	BG	METHOD NOT CITED	KLEV CARR	56001	T	L
1.0 E 1 PH OF SOLUTION	UNK	7.0 X10 ⁻³ M	BG	METHOD NOT CITED	KLEV CARR	56001	T	L
E 0 0001				SEE CMPD NMBR IN ADDITV	KLEV	48005		X
E 0 0001				GRAPH DATA NOT RETRIEVED	KLEV	46007		R
E 0 0001	UNK			SEE CMPD NMBR IN ADDITV	CORR HARK	46015		X
E 0 0040				GRAPH DATA NOT RETRIEVED	KLEV	46007		R
E 0 0044				GRAPH DATA NOT RETRIEVED	KLEV	46007		R
E 0 0044	25			SEE CMPD NMBR IN ADDITV	SHIN	54005		X
E 0 0090				SEE CMPD NMBR IN ADDITV	KLEV	48005		X
E 0 0090	25			SEE CMPD NMBR IN ADDITV	SHIN	54005		X
E 0 0091				SEE CMPD NMBR IN ADDITV	KLEV	48005		X
E 0 0091				GRAPH DATA NOT RETRIEVED	KLEV	46007		R
E 0 0188	25			SEE CMPD NMBR IN ADDITV	SHIN	54005		X
1.9 E 1 C 0372	UNK	8. X10 ⁻³ M	DG	METHOD NOT CITED	ARRI PATT	53003	G	L
3.0 E 1 C 0372	UNK	8.2 X10 ⁻³ M	DG	METHOD NOT CITED	ARRI PATT	53003	G	L
5.6 E 1 C 0372	UNK	1.3 X10 ⁻² M	DG	METHOD NOT CITED	ARRI PATT	53003	G	L
8.5 E 1 C 0372	UNK	2.1 X10 ⁻² M	DG	METHOD NOT CITED	ARRI PATT	53003	G	L
9.4 E 1 C 0372	UNK	2.9 X10 ⁻² M	DG	METHOD NOT CITED	ARRI PATT	53003	G	L
1.20 E-1 M BUTANOL-1	10	5.70 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	SHIN	56004	T	L
2. E O I K OH								
2.02 E-1 M BUTANOL-1	18	4.75 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
2. E O I K OH								
3.18 E-1 M BUTANOL-1	18	3.68 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
2. E O I K OH								
3.92 E-1 M BUTANOL-1	18	3.02 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
2. E O I K OH								
4.48 E-1 M BUTANOL-1	18	2.59 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
2. E O I K OH								
4.5 E-5 M DECANOL-1	18	6.78 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
2. E O I K OH								
8.9 E-5 M DECANOL-1	18	6.10 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
2. E O I K OH								
1.91 E-4 M DECANOL-1	18	5.76 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
2. E O I K OH								
5.5 E-1 M ETHANOL	18	6.51 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
2. E O I K OH								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; D—wt/vol %; E—saturation; H—wt % solvent; I—mol % surfactant; K—normality; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
1.00	E O M ETHANOL	18	5.98 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
1.74	E O M ETHANOL	18	5.1 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
2.44	E O M ETHANOL	18	4.52 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
2.96	E O M ETHANOL	18	3.97 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
1.07	E-2 M HEXANOL-1	18	5.64 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
1.59	E-2 M HEXANOL-1	18	5.08 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
2.18	E-2 M HEXANOL-1	18	4.58 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
3.08	E-2 M HEXANOL-1	18	3.90 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
2.50	E-3 M HEPTANOL-1	18	5.91 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
5.52	E-3 M HEPTANOL-1	18	5.09 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
8.66	E-3 M HEPTANOL-1	18	4.03 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
1.	E-3 N K OH	UNK	5.5 X10 ⁻³ M	BG	METHOD NOT CITED	KLEV CARR	56001	T	L
	5. E-2 N K CL								
1.	E-3 N K OH	UNK	4.5 X10 ⁻³ M	BG	METHOD NOT CITED	KLEV CARR	56001	T	L
	1. E-1 N K CL								
1.	E-3 N K OH	UNK	3. X10 ⁻³ M	BG	METHOD NOT CITED	KLEV CARR	56001	T	L
	2. E-1 N K CL								
1.	E-3 N K OH	UNK	1.5 X10 ⁻³ M	BG	METHOD NOT CITED	KLEV CARR	56001	T	L
	5. E-1 N K CL								
1.	E-3 N K OH	UNK	8. X10 ⁻⁴ M	BG	METHOD NOT CITED	KLEV CARR	56001	T	L
	1. E O N K CL								
5.5	E-4 M OCTANOL-1	18	6.47 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
1.11	E-3 M OCTANOL-1	18	5.82 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
1.39	E-3 M OCTANOL-1	18	5.36 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
2.45	E-3 M OCTANOL-1	18	4.80 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
3.08	E-1 M PROPANOL-1	18	5.94 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
5.84	E-1 M PROPANOL-1	18	5.26 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
7.28	E-1 M PROPANOL-1	18	4.71 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
8.80	E-1 M PROPANOL-1	18	4.18 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
1.07	E O M PROPANOL-1	18	3.52 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
1.25	E O M PROPANOL-1	18	2.97 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
1.65	E-4 M NONANOL-1	18	6.62 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
3.08	E-4 M NONANOL-1	18	6.17 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
4.41	E-4 M NONANOL-1	18	5.90 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
6.82	E-4 M NONANOL-1	18	5.55 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
	2. E O I 0296 K OH	25			SEE CMPD NMBR IN ADDITV	SHIN	54005		X
5.95	E-2 M 3-METHYL BUTANOL-1	18	5.12 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
9.7	E-2 M 3-METHYL BUTANOL-1	18	4.17 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
1.29	E-1 M 3-METHYL BUTANOL-1	18	3.48 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
1.83	E-1 M 3-METHYL BUTANOL-1	18	2.64 X10 ⁻³ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55004	T	L
	2. E O I K OH								
	0090				SEE CMPD NMBR IN ADDITV	SHIN	54003		X
113 ENTRIES FOR COMPOUND									

COMPOUND NO = 93 MOL WGT - 252.2 OCTYL TRIMETHYL AMMONIUM BROMIDE
 20 2.82 X10⁻¹ M BB INTERFACIAL TENSION LOGM HAYD TAYL 62004 L L
 25 1.4 X10⁻¹ M CD REFRACTIVE INDEX KLEV 48005 T L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/
 D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
	25	1.3 X10 ⁻¹ M	CE	EQUIV CONDUCTNCE GRAPH	SCOT TART	43003	K	L
	30	2.24 X10 ⁻¹ M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
	40	1.5 X10 ⁻¹ M	CE	EQUIV CONDUCTNCE GRAPH	SCOT TART	43003	K	L
	60	1.3 X10 ⁻¹ M	CE	EQUIV CONDUCTNCE GRAPH	SCOT TART	43003	K	L
1.25 E-2 M K BR	30	2.26 X10 ⁻¹ M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
2.5 E-2 M K BR	30	2.20 X10 ⁻¹ M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
1.0 E-1 M NA CL	20	2.69 X10 ⁻¹ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
2.5 E-1 M NA CL	20	2.54 X10 ⁻¹ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
5.0 E-1 M NA CL	20	2.34 X10 ⁻¹ M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
11 ENTRIES FOR COMPOUND								
COMPOUND NO = 94 MOL WGT -		266.3	NONYL TRIMETHYL AMMONIUM BROMIDE					
	30	1.43 X10 ⁻¹ M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
1.25 E-2 M K BR	30	1.40 X10 ⁻¹ M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 95 MOL WGT -		280.3	DECYL TRIMETHYL AMMONIUM BROMIDE					
	49006			VALUES FRM REF IN CMC	CORR HARK	46004		R
	47006			VALUES FRM REF IN CMC	CORR HARK	46005		R
	25	6.8 X10 ⁻² M	CC	REFRACTIVE INDEX	KLEV	48005	T	L
	25	6.5 X10 ⁻² M	XB	UNSPECIFIED CONDUCTANCE	KLEV	53010	T	L
	25	7.0 X10 ⁻² W	CC	EQUIV CONDUCTNCE GRAPH	SCOT TART	43003	P	L
	25	6.46 X10 ⁻² W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	2
	26	6.43 X10 ⁻² M	BG	VISUAL SPCTR CHNGE SKYB	CORR HARK	47006	T	L
	26	6.35 X10 ⁻² M	BG	VISUAL SPCTR CHNGE EOSN	CORR HARK	47006	T	L
	26	6.10 X10 ⁻² M	BG	VISUAL SPCTR CHNGE FL	CORR HARK	47006	T	L
	26	6.02 X10 ⁻² M	BG	VISUAL SPCTR CHNGE INPX	CORR HARK	47006	T	L
	26	6.36 X10 ⁻² M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L
	30	6.3 X10 ⁻² M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
	40	7.0 X10 ⁻² W	CC	EQUIV CONDUCTNCE GRAPH	SCOT TART	43003	T	L
	60	7.5 X10 ⁻² M	CC	REFRACTIVE INDEX	KLEV	48005	T	L
	60	8.0 X10 ⁻² W	CC	EQUIV CONDUCTNCE GRAPH	SCOT TART	43003	P	L
	UNK	7.00 X10 ⁻² M	BC	DEBYE PLT LIGHT SCATTER	DEBY	49001	T	L
	UNK	6.4 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
	UNK	6.86 X10 ⁻² M	BC	METHOD NOT CITED	WASI HUBB	64043	T	L
2.15 E-2 M BA CL2	26	5.84 X10 ⁻² M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L
5.64 E-2 M BA CL2	26	5.11 X10 ⁻² M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L
1.00 E-1 M BA CL2	26	4.54 X10 ⁻² M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L
1.43 E-1 M BA CL2	26	3.88 X10 ⁻² M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L
2.42 E-1 M BA CL2	26	3.29 X10 ⁻² M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L
1.9 E-1 M BUTANOL-1	UNK	4.5 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
3.9 E-1 M BUTANOL-1	UNK	3.0 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
5.4 E-1 M BUTANOL-1	UNK	2.1 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
3.8 E-1 M DIOXANE	UNK	6.5 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
9.6 E-1 M DIOXANE	UNK	6.7 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
1.96 E 0 M DIOXANE	UNK	6.9 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
1.25 E-1 M ETHYLENE GLYCOL	UNK	6.4 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
1.38 E 0 M ETHYLENE GLYCOL	UNK	6.5 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
2.83 E 0 M ETHYLENE GLYCOL	UNK	6.6 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
1.21 E 0 M ETHANOL	UNK	6.4 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
2.29 E 0 M ETHANOL	UNK	5.6 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
3.08 E 0 M ETHANOL	UNK	6.6 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
3.63 E 0 M ETHANOL	UNK	5.7 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
4.08 E 0 M ETHANOL	UNK	5.8 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
4.62 E 0 M ETHANOL	UNK	6.0 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
1.25 E-2 M K BR	30	5.9 X10 ⁻² M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
2.5 E-2 M K BR	30	5.0 X10 ⁻² M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
5.0 E-2 M K BR	30	4.5 X10 ⁻² M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
1.30 E-2 M K BR	UNK	6.72 X10 ⁻² M	BC	DEBYE PLT LIGHT SCATTER	DEBY	49001	T	L
1.4 E-1 M METHANOL	UNK	6.3 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
2.9 E-1 M METHANOL	UNK	6.1 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
3.6 E-1 M METHANOL	UNK	5.9 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
8.8 E-1 M METHANOL	UNK	5.9 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
1.88 E 0 M METHANOL	UNK	6.3 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
2.88 E 0 M METHANOL	UNK	6.5 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
4.04 E 0 M METHANOL	UNK	6.8 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
5.86 E 0 M METHANOL	UNK	8.2 X10 ⁻² M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
7. E-2 M NA CL	20	6.30 X10 ⁻² M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
1.0 E-1 M NA CL	20	5.95 X10 ⁻² M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
2.5 E-1 M NA CL	20	4.62 X10 ⁻² M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
5.0 E-1 M NA CL	20	3.54 X10 ⁻² M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	62004	L	L
4.96 E-2 M NA CL	26	5.69 X10 ⁻² M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L
1.32 E-1 M NA CL	26	5.05 X10 ⁻² M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L
2.19 E-1 M NA CL	26	4.38 X10 ⁻² M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
3.22 E-1 M NA CL	26	3.70 X10-2 M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L
5.65 E-1 M NA CL	26	3.15 X10-2 M	BG	VISUAL SPCTR CHNGE	CORR HARK	47010	T	L
4.3 E-1 M PROPANOL-1	UNK	5.1 X10-2 M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
9.4 E-1 M PROPANOL-1	UNK	3.9 X10-2 M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
1.46 E 0 M PROPANOL-1	UNK	3.1 X10-2 M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
2.04 E 0 M PROPANOL-1	UNK	2.1 X10-2 M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
2.37 E 0 M PROPANOL-1	UNK	1.9 X10-2 M	CG	VISUAL SPCTR CHNGE SKYB	HARK MITT	49006	G	L
5.00 E 2 Y PRESSURE	25	6.70 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
1.000E 3 Y PRESSURE	25	6.70 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
1.500E 3 Y PRESSURE	25	6.50 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
3.000E 3 Y PRESSURE	25	5.56 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
68 ENTRIES FOR COMPOUND								
COMPOUND NO = 96 MOL WGT - 294.3 UNDECYL TRIMETHYL AMMONIUM BROMIDE								
	30	3.6 X10-2 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
1.25 E-2 M K BR	30	3.1 X10-2 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
2.5 E-2 M K BR	30	2.7 X10-2 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 97 MOL WGT - 308.4 DODECYL TRIMETHYL AMMONIUM BROMIDE								
	01.0	1.6 X10-2 M	BD	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
	UN	1.48 X10-2 M	BC	METHOD NOT CITED	WASI HUBB	64043	T	L
	10.0	1.5 X10-2 M	BD	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
	20	1.59 X10-2 M	BB	INTERFACIAL TENSION LOGM	HAYD PHIL	58012	L	D
	25	4.48 X10-1 D	BB	TURBIDITY PLT LITE SCATR	ANAC JOHN	64017	K	D
		1.452X10-2 M						M
	25	1.44 X10-2 N	BA	EQUIV CONDUCTNCE GRAPH	VOEK TART	55006	T	D
	25	1.64 X10-2 M	CC	REFRACTIVE INDEX	KLEV	48005	T	L
	25	1.40 X10-2 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	25	1.58 X10-2 W	CB	SPECFC CONDUCTNCE GRAPH	SCOT TART	43003	P	L
	25.0	1.4 X10-2 M	BD	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
	25	1.564X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	D
	25	1.42 X10-2 M	BA	EQUIV CONDUCTNCE GRAPH	BRUN HOLT	61016	T	D
	30	1.47 X10-2 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
	40	1.65 X10-2 W	CB	SPECFC CONDUCTNCE GRAPH	SCOT TART	43003	P	L
	40.0	1.5 X10-2 M	BD	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
	50	1.73 X10-2 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
	55.0	1.6 X10-2 M	BD	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
	60	1.9 X10-2 M	CC	REFRACTIVE INDEX	KLEV	48005	T	L
	60	1.90 X10-2 W	CD	SPECFC CONDUCTNCE GRAPH	SCOT TART	43003	P	L
	70	1.94 X10-2 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
	UNK	4.1 X10-2 D	HG	SURFACE TENSION UNSPEC	WAN	66018	T	L
	UNK	1.51 X10-2 M	BC	DEBYE PLT LIGHT SCATTER	DEBY	49001	T	L
	25	4.62 X10-3 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
1. E-1 W PHENOL	UNK	1.13 X10-2 M	BC	METHOD NOT CITED	WASI HUBB	64043	T	L
6.25 E-3 M CA BR2	UNK	1.6 X10-2 M	BA	METHOD NOT CITED	WASI HUBB	64043	T	L
1.0 E 0 M H N03	25	6.0 X10-4 D	CG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
		1.94 X10-5 M						M
1.0 E 0 M H N03	25	9.5 X10-5 D	CG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
		3.08 X10-6 M						M
1.25 E-2 M K BR	30	1.08 X10-2 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
2.5 E-2 M K BR	30	0.1 X10-3 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
3.403E-2 M K BR	30	8.48 X10-3 M	BC	DEBYE PLT LIGHT SCATTER	DEBY	49001	T	L
5.0 E-2 M K BR	30	7.0 X10-3 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
3.403E-2 M K BR	45	9.31 X10-3 M	BC	DEBYE PLT LIGHT SCATTER	DEBY	49001	T	L
3.403E-2 M K BR	60	1.201X10-2 M	BC	DEBYE PLT LIGHT SCATTER	DEBY	49001	T	L
1.25 E-2 M K BR	UNK	1.16 X10-2 M	BC	METHOD NOT CITED	WASI HUBB	64043	T	L
1.30 E-2 M K BR	UNK	1.05 X10-2 M	BC	DEBYE PLT LIGHT SCATTER	DEBY	49001	T	L
1.0 E 0 M K CL	25	4.0 X10-4 M	CE	SURFACE TNSN LINEAR PLOT	COLI	50012	T	L
1.0 E 0 M K CL	25	3.2 X10-4 D	CG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
		1.03 X10-5 M						M
1.0 E 0 M K CL	25	5.3 X10-4 D	CG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
		1.71 X10-5 M						M
1.0 E 0 M K N03	25	9.3 X10-5 D	CG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
		3.01 X10-6 M						M
1.0 E 0 M K N03	25	3.8 X10-4 D	CG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
		1.23 X10-5 M						M
1.0 E 0 M K OH	25	3.5 X10-5 D	CG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
		1.13 X10-6 M						M
1.0 E 0 M K OH	25	3.8 X10-4 D	CG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
		1.23 X10-5 M						M
4.17 E-3 M LA BR3	UNK	1.17 X10-2 M	BC	METHOD NOT CITED	WASI HUBB	64043	T	L
2. E-1 M NA BR	10.0	2.7 X10-3 M	BC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
1.00 E-1 M NA BR	25	1.39 X10-1 D	BB	TURBIDITY PLT LITE SCATR	ANAC JOHN	64017	K	3
		4.474X10-3 M						M

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
2.	E-1 M NA BR	25	2.0 X10-3 M	BD	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
2.	E-1 M NA BR	25.0	2.5 X10-3 M	BC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
4.	E-1 M NA BR	25	1.0 X10-3 M	BD	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
5.02	E-1 M NA BR	25	6.2 X10-2 D	BB	TURBIDITY PLT LITE SCATR	ANAC JOHN	64017	K	3
			2.01 X10-3 M					M	
8.	E-1 M NA BR	25	6.3 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
5.02	E-1 W NA BR	31.5	1.9 X10-3 M	BD	DEBYE PLT LIGHT SCATTER	ANAC GHOS	63016	T	L
2.	E-1 M NA BR	40.0	3.0 X10-3 M	BC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
2.	E-1 M NA BR	55.0	3.2 X10-3 M	BC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
7.	E-2 M NA CL	20	8.7 X10-3 M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	60011	L	L
1.0	E-1 M NA CL	20	7.5 X10-3 M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	60011	L	L
2.5	E-1 M NA CL	20	4.25 X10-3 M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	60011	L	L
5.0	E-1 M NA CL	20	2.57 X10-3 M	BB	INTERFACIAL TENSION LOGM	HAYD TAYL	60011	L	L
5.00	E 2 Y PRESSURE	25	1.61 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
1.000E	3 Y PRESSURE	25	1.616X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
1.500E	3 Y PRESSURE	25	1.56 X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
3.000E	3 Y PRESSURE	25	1.272X10-2 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
5.	E-1 M UREA	25	1.56 X10-2 M	BA	EQUIV CONDUCTNCE GRAPH	BRUN HOLT	61016	T	3
2.0	E 0 M UREA	25	2.04 X10-2 M	BA	EQUIV CONDUCTNCE GRAPH	BRUN HOLT	61016	T	3
6.0	E 0 M UREA	25	4.54 X10-2 M	BA	EQUIV CONDUCTNCE GRAPH	BRUN HOLT	61016	T	3
1.0	E 1 C 0115	25	6.3 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
2.5	E 1 C 0115	25	2.5 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
5.0	E 1 C 0115	25	1.25 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
1.0	E 1 c 0116	25	6.3 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
2.5	E 1 C 0116	25	2.0 X10-4 M	BD	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
5.0	E 1 C 0116	25	8.0 X10-5 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
1.0	E 1 C 0325	25	8.0 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
2.5	E 1 C 0325	25	6.0 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
5.0	E 1 C 0325	25	4.0 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
7.5	E 1 C 0325	25	2.0 X10-4 M	BD	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
1.0	E 1 C 0327	25	2.0 X10-3 M	BD	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
2.5	E 1 C 0327	25	2.5 X10-4 M	BD	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
5.0	E 1 C 0327	25	1.25 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
5.0	E 0 M NH3	25	3.0 X10-4 D	CG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
	1. E-1 M NH4 CL		0.72 X10-6 M					M	
5.00	E 2 Y PRESSURE	25	5.00 X10-3 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
	1. E-1 W PHENOL								
1.000E	3 Y PRESSURE	25	5.03 X10-3 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
	1. E-1 W PHENOL								
1.500E	3 Y PRESSURE	25	4.88 X10-3 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
	1. E-1 W PHENOL								
3.000E	3 Y PRESSURE	25	3.88 X10-3 W	BA	SPECFC CONDUCTNCE GRAPH	TUDD ALEX	62035	T	3
	1. E-1 W PHENOL								
1.0	E 1 C 0327	25	3.0 X10-4 M	BD	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	2. E-1 M NA BR								
1.0	E 1 C 0327	25	1.25 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	4. E-1 M NA BR								
1.0	E 1 C 0327	25	1.0 X10-4 M	BD	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	8. E-1 M NA BR								
2.5	E 1 C 0327	25	2.0 X10-4 M	BD	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	2. E-1 M NA BR								
2.5	E 1 C 0327	25	1.25 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	4. E-1 M NA BR								
2.5	E 1 C 0327	25	1.0 X10-4 M	BD	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	8. E-1 M NA BR								
5.0	E 1 C 0327	25	1.25 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	2. E-1 M NA BR								
5.0	E 1 C 0327	25	1.25 X10-4 M	BC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	4. E-1 M NA BR								
5.0	E 1 C 0327	25	1.0 X10-4 M	BD	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	8. E-1 M NA BR								
	90 ENTRIES FOR COMPOUND								
COMPOUND NO = 98 MOL WGT - 336.4 TETRADECYL TRIMETHYL AMMONIUM BROMIDE									
			30	3.51 X10-3 M	BB	SURFACE TENSION LOG PLOT	VENA NAUM	64001	T L
			30	3.6 X10-3 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T L
			50	4.2 X10-3 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T L
			70	4.2 X10-3 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T L
			UNK	8.2 X10-2 D	HG	SURFACE TENSION UNSPEC	WAN	66018	T L
1.25	E-2 M K BR	30	2.1 X10-3 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T L	
2.5	E-2 M K BR	30	1.6 X10-3 M	CD	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T L	
5.0	E-2 M K BR	30	1.3 X10-3 M	CD	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T L	
1.30	E-2 M K BR	UNK	1.76 X10-3 M	BC	DEBYE PLT LIGHT SCATTER	DEBY	49001	T L	
5.	E-2 M NA BR	30	4.2 X10-4 M	BC	SURFACE TENSION LOG PLOT	VENA NAUM	64001	TA	L
	10 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/ D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Compound No =	99	MOL WGT =	364.5	HEXADECYL TRIMETHYLAMMONIUM BROMIDE	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
								QUESTIONABLE CRITERION	DEBY ANAC	51001		R
								GRAPH DATA NOT RETRIEVED	COHE VASS	61027		R
			25	8.0 X10-4 M	CC			SURFACE TENSION LOG PLOT	SCHI	66025	L	L
			25	9.8 X10-4 M	CC			SPECFC CONDUCTNCE GRAPH	SCOT TART	43003	P	L
			25	5. X10-4 W	HG			VISUAL SPCTR CHNGE	FINE MCBA	48011	T	L
			25	9.20 X10-4 W	BA			SPECFC CONDUCTNCE GRAPH	CZER	66030	T	2
			25	3.3 X10-2 D	HE			METHOD NOT CITED	GINN HARR	61014	T	L
			25	3.3 X10-2 D	HC			FOTOMTR SOLUBLEZTN OROT	GINN KINN	61015	T	L
			30	4. X10-4 M	CE			TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
			30	3.0 X10-2 D	BB			REFRACTIVE INDEX	STEI COHE	65012	T	L
				8.23 X10-4 M								M
			35	9.5 X10-4 M	BB			EQUIV CONDUCTNCE GRAPH	HART COLL	36001	P	D
			35	9.8 X10-4 M	BB			SPECFC CONDUCTNCE GRAPH	HART COLL	36001	P	D
			35	9. X10-4 M	BD			EQUIV CONDUCTNCE GRAPH	HART COLL	36001	T	L
			35	1.020X10-3 W	BA			SPECFC CONDUCTNCE GRAPH	CZER	66030	T	D
			35	9.1 X10-4 M	XG			VELOCITY OF SOUND	KUPP SURY	65028	T	L
			45	1.155X10-3 W	BA			SPECFC CONDUCTNCE GRAPH	CZER	66030	T	3
			50	1.5 X10-3 M	CD			TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
			55	1.320X10-3 W	BA			SPECFC CONDUCTNCE GRAPH	CZER	66030	T	3
			60	1.0 X10-3 M	CD			REFRACTIVE INDEX	KLEV	48005	T	L
			70	1.5 X10-3 M	CD			TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
			UNK	5.1 X10-2 D	HG			SURFACE TENSION UNSPEC	WAN	66018	T	L
	E O	NH4 BR	30					QUESTIONABLE CRITERION	STEI COHE	65012		R
	E O	H BR	30					QUESTIONABLE CRITERION	STEI COHE	65012		R
1.0	E O M	H NO3	25	7.0 X10-5 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
				1.92 X10-6 M								M
1.0	E O M	H NO3	25	3.8 X10-4 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
				1.04 X10-5 M								M
3.	E-3 M	K BR	30	8.2 X10-4 M	BD			TURBIDITY PLT LITE SCATR	TART	59010	T	L
	E O	K BR	30					QUESTIONABLE CRITERION	STEI COHE	66012		R
1.0	E O M	K CL	25	6.0 X10-5 M	CE			SURFACE TNSN LINEAR PLOT	COLI	50012	T	L
1.0	E O M	K CL	25	2.0 X10-4 M	CE			SURFACE TENSION MINIMUM	COLI	50012	T	L
1.0	E O M	K CL	25	7.4 X10-5 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
				2.03 X10-6 M								M
1.0	E O M	K CL	25	3.5 X10-4 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
				9.60 X10-6 M								M
1.0	E O M	K NO3	25	7.4 X10-5 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
1.0	E O M	K NO3	25	6.5 X10-5 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
				1.78 X10-6 M								M
				2.03 X10-6 M								M
1.0	E O M	K NO3	25	4.2 X10-4 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
1.0	E O M	K NO3	25	2.3 X10-4 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
				6.31 X10-6 M								M
				1.15 X10-5 M								M
1.0	E O M	K OH	25	2.1 X10-5 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
				5.76 X10-7 M								M
1.0	E O M	K OH	25	1.3 X10-4 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
				3.56 X10-6 M								M
	E O	K OH	30					QUESTIONABLE CRITERION	STEI COHE	65012		R
	E O	(C4H9)4 N BR /NORMAL	30					QUESTIONABLE CRITERION	STEI COHE	65012		R
	E O	(C2H5)4 N BR	30					QUESTIONABLE CRITERION	STEI COHE	65012		R
	E O	(CH3) N BR	30					QUESTIONABLE CRITERION	STEI COHE	65012		F
	E O	(C3H7)4 N BR /NORMAL	30					QUESTIONABLE CRITERION	STEI COHE	65012		R
1.0	E 1 C	0117	25	8.0 X10-4 M	CC			SURFACE TENSION LOG PLOT	SCHI	66025	L	L
2.5	E 1 C	0117	25	4.5 X10-5 M	CC			SURFACE TENSION LOG PLOT	SCHI	66025	L	L
5.0	E 1 C	0117	25	1.4 X10-5 M	CD			SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	E O	0427						GRAPH DATA NOT RETRIEVED	LANG	53005		R
1.0	E 1 C	0535	25	6.0 X10-4 M	CC			SURFACE TENSION LOG PLOT	SCHI	66025	L	L
2.5	E 1 C	0535	25	3.0 X10-5 M	CD			SURFACE TENSION LOG PLOT	SCHI	66025	L	L
5.0	E 1 C	0535	25	1.3 X10-5 M	CD			SURFACE TENSION LOG PLOT	SCHI	66025	L	L
5.0	E O M	NH3	25	8.0 X10-5 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
	1. E-1 M	NH4 CL		2.19 X10-6 M								M
5.0	E O M	NH3	25	1.5 X10-4 D	CG			POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
	1. E-1 M	NH4 CL		4.11 X10-6 M								M
1.00	E O	PH OF SOLUTION	30	6. X10-5 M	CG			FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
	1.50 E-5 M	BROMPHENOL BLUE										
1.00	E O	PH OF SOLUTION	30	6. X10-5 M	CG			FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
	1.50 E-5 M	BROMPHENOL BLUE										
1.00	E O	PH OF SOLUTION	30	1.2 X10-4 M	CG			FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
	3.00 E-5 M	BROMPHENOL BLUE										
1.00	E O	PH OF SOLUTION	30	1.1 X10-4 M	CG			FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
	3.00 E-5 M	BROMPHENOL BLUE										
1.00	E O	PH OF SOLUTION	30	1.2 X10-4 M	CG			FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol %; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives		Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
1.00 E 0	PH OF SOLUTION	30	1.1 X10-4 M	CG	FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
3.00 E-5 M	BROMPHENOL BLUE								
3.00 E-5 M	BROMPHENOL BLUE								
1.00 E 0	PH OF SOLUTION	30	1.2 X10-4 M	CG	FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
3.00 E-5 M	BROMPHENOL BLUE								
6.50 E 0	PH OF SOLUTION	30	1.1 X10-4 M	CG	FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
1.50 E-5 M	BROMPHENOL BLUE								
6.50 E 0	PH OF SOLUTION	30	1.2 X10-4 M	CG	FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
1.50 E-5 M	BROMPHENOL BLUE								
6.50 E 0	PH OF SOLUTION	30	1.2 X10-4 M	CG	FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
1.50 E-5 M	BROMPHENOL BLUE								
6.50 E 0	PH OF SOLUTION	30	1.1 X10-4 M	CG	FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
1.50 E-5 M	BROMPHENOL BLUE								
6.50 E 0	PH OF SOLUTION	30	2.5 X10-5 M	CG	FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
3.75 E-6 M	BROMPHENOL BLUE								
6.50 E 0	PH OF SOLUTION	30	3.5 X10-5 M	CG	FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
3.75 E-6 M	BROMPHENOL BLUE								
6.50 E 0	PH OF SOLUTION	30	6.8 X10-5 M	CG	FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
7.50 E-6 M	BROMPHENOL BLUE								
6.50 E 0	PH OF SOLUTION	30	5.0 X10-5 M	CG	FOTOMTR SPCTR CHNGE BRPB	COLI	51008	T	L
7.50 E-6 M	BROMPHENOL BLUE								
66 ENTRIES FOR COMPOUND									
COMPOUND NO = 100 MOL WGT -		272.2	OCTYL PYRIDINIUM BROMIDE						
		20	2.3 X10-1 W	CC	SURFACE TENSION LOG PLOT	BURY BROW	52011	T	L
		30	1.93 X10-1 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
5.0 E-2 M	K BR	30	1.89 X10-1 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
3 ENTRIES FOR COMPOUND									
COMPOUND NO = 101 MOL WGT -		314.3	UNDECYL PYRIDINIUM BROMIDE						
		30	4.2 X10-2 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
5.0 E-2 M	K BR	30	3.1 X10-2 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
2 ENTRIES FOR COMPOUND									
COMPOUND NO = 102 MOL WGT -		356.4	TETRADECYL PYRIDINIUM BROMIDE						
		14.0	3.2 X10-3 M	BC	KRAFFT POINT SOLUBILITY	ADDI FURM	56019	T	L
		18.5	3.1 X10-3 M	BC	INTERFACIAL TNSN UNSPEC	ADDI FURM	56019	T	L
		25	2.9 X10-3 M	CC	SPECFC CONDUCTNCE GRAPH	BENT SPAR	66038	T	L
		30	2.57 X10-3 M	DD	SURFACE TENSION LOG PLOT	VENA NAUM	64001	T	L
		30	4.1 X10-3 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
2.5 E-2 M	K BR	30	2.0 X10-3 M	CC	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
5.0 E-2 M	K BR	30	1.5 X10-3 M	CD	TURBIDITY PLT LITE SCATR	TRAP HERM	55009	T	L
5.0 E-2 M	NA BR	30	2.4 X10-4 M	BC	SURFACE TENSION LOG PLOT	VENA NAUM	64001	TA	L
8 ENTRIES FOR COMPOUND									
COMPOUND NO = 103 MOL WGT -		234.3	HEXYL /OXYETHYLENE/ 3 ALCOHOL						
HOMOGENEOUS HEAD GROUP									
		15	1.07 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3
		20	7.5 X10-2 M	BE	SURFACE TENSION LOG PLOT	MULL METC	62015	T	L
		25	1.00 X10-1 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3
		35	7.8 X10-2 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3
4 ENTRIES FOR COMPOUND									
COMPOUND NO = 104 MOL WGT -		262.4	OCTYL /OXYETHYLENE/ 3 ALCOHOL						
HOMOGENEOUS HEAD GROUP									
		15	9.3 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3
		25	7.5 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3
2 ENTRIES FOR COMPOUND									
COMPOUND NO = 105 MOL WGT -		394.6	OCTYL /OXYETHYLENE/ 6 ALCOHOL						
HOMOGENEOUS HEAD GROUP									
		15	1.19 X10-2 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3
		18	7.6 X10-3 M	BC	UNSPEC LIGHT SCATTER	GOOD OTTE	61004	T	L
		18	4.45 X10-1 D	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64023	T	L
			1.127X10-2 M						M
		20	3.8 X10-1 D	BD	DENSITY	FLOR	66020	T	L
			9.63 X10-3 M						M
		25	9.9 X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3
		25	9.8 X10-3 M	BB	SURFACE TENSION LOG PLOT	GOOD OTTE	61004	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation	
	30	3.5C X10 ⁻¹ D	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64023	T	L	
		8.869X10 ⁻³ M					M		
	35	7.7 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	40	2.85 X10 ⁻¹ D	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64023	T	L	
		7.222X10 ⁻³ M					M		
	45	6.7 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	L	
10 ENTRIES FOR COMPOUND									
COMPOUND NO =	106	MOL WGT - 526.7	OCTYL /OXYETHYLENE/ 9 ALCOHOL		HOMOGENEOUS HEAD GROUP				
	15	1.6 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	25	1.3 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	35	1.1 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
3 ENTRIES FOR COMPOUND									
COMPOUND NO =	107	MOL WGT - 290.4	DECYL /OXYETHYLENE/ 3 ALCOHOL		HOMOGENEOUS HEAD GROUP				
	15	7.3 X10 ⁻⁴ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	25	6.0 X10 ⁻⁴ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	35	5.6 X10 ⁻⁴ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
3 ENTRIES FOR COMPOUND									
COMPOUND NO =	108	MOL WGT - 422.6	DECYL /OXYETHYLENE/ 6 ALCOHOL		HOMOGENEOUS HEAD GROUP				
	15	1.14 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	20	9.2 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CARL CHAL	64009	T	L	
	20	9.6 X10 ⁻⁴ M	BC	REFRACTIVE INDEX	DONB JAN	63021	T	L	
	23.5	9.5 X10 ⁻⁴ M	BG	FOTOMTR SPCTR CHNG I2	CARL CHAL	64009	T	L	
	25	9.0 X10 ⁻⁴ M	DD	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	25	3.80 X10 ⁻² D	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64023	T	L	
		8.991X10 ⁻⁴ M					M		
	35	6.6 X10 ⁻⁴ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	35	2.79 X10 ⁻² D	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64023	T	L	
		6.601X10 ⁻⁴ M					M		
	45	6.4 X10 ⁻⁴ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	L	
	45	1.83 X10 ⁻² D	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64023	T	P	
		4.330X10 ⁻⁴ M					M		
10 ENTRIES FOR COMPOUND									
COMPOUND NO =	109	MOL WGT - 554.8	DECYL /OXYETHYLENE/ 9 ALCOHOL		HOMOGENEOUS HEAD GROUP				
	15	1.4 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	25	1.3 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	35	1.1 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
3 ENTRIES FOR COMPOUND									
COMPOUND NO =	110	MOL WGT - 450.7	DODECYL /OXYETHYLENE/ 6 ALCOHOL		HOMOGENEOUS HEAD GROUP				
	15	1.08 X10 ⁻⁴ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	15	1.08 X10 ⁻⁴ M	BB	SURFACE TENSION LOG PLOT	GOOD OTTE	61004	T	L	
	20	8.2 X10 ⁻⁵ M	BC	SURFACE TENSION LOG PLOT	CARL CHAL	64009	T	L	
	20	7.2 X10 ⁻⁵ M	BG	FOTOMTR SPCTR CHNG I2	CARL CHAL	64009	T	L	
	20	1.00 X10 ⁻⁴ M	BC	REFRACTIVE INDEX	DONB JAN	63021	T	L	
	25	8.7 X10 ⁻⁵ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	25	8.7 X10 ⁻⁵ M	BB	SURFACE TENSION LOG PLOT	GOOD OTTE	61004	T	L	
	35	7.2 X10 ⁻⁵ M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	64003	T	3	
	35	7.2 X10 ⁻⁵ M	BB	SURFACE TENSION LOG PLOT	GOOD OTTE	61004	T	L	
9 ENTRIES FOR COMPOUND									
COMPOUND NO =	111	MOL WGT - 272.3	LITHIUM DODECYL 1 SULFATE						
	10	7.0 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L	
	25	7.9 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L	
	25	8.77 X10 ⁻³ M	BA	EQUIV CONDUCTNCE GRAPH	MYSE PRIN	59002	TL	2	
	25	8.93 X10 ⁻³ M	BA	SPECFC CONDUCTNCE GRAPH	MYSE PRIN	59002	TL	2	
	40	1.05 X10 ⁻² M	CB	SPECFC CONDUCTNCE GRAPH	MEGU KOND	56020	T	L	
	45	8.0 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T	L	
	50	6.9 X10 ⁻³ M	DG	VISUAL SPCTR CHNGE PNCN	RAIS	52016	T	L	
6.75 E-2 M	NA CL	40	2.5 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE RHD6	MEGU KOND	56020	T	L
1. E-5 M	RHODAMINE 6GPC	40	9.7 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE RHD6	MEGU KOND	56020	T	L
5. E-6 M	RHODAMINE 6GPC	40	9.6 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE RHD6	MEGU KOND	56020	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/ D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
3.	E O M UREA	10	8.0 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	10	1.0 X10-2 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
1.	E O M UREA	25	8.0 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
2.	E O M UREA	25	8.2 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
3.	E O M UREA	25	8.8 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
4.5	E O M UREA	25	9.4 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	25	1.0 X10-2 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
3.	E O M UREA	45	8.9 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	45	1.05 X10-2 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
19 ENTRIES FOR COMPOUND									
COMPOUND NO = 112 MOL WGT -			339.5	TETRAMETHYL AMMONIUM DODECYL 1 SULFATE					
		10	4.8 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
		25	5.50 X10-3 M	DA	SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T L	
		25	4.8 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
		25	5.41 X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	MYSE PRIN	59002	TL 2	
		25	5.52 X10-3 M	BA	SPECFC CONDUCTNCE GRAPH	MYSE PRIN	59002	TL 2	
		30	5.7 X10-3 M	CB	EQUIV CONDUCTNCE GRAPH	MEGU KOND	59026	T L	
		30	4.5 X10-3 M	CG	FOTOMTR SPCTR CHNGE RHD6	MEGU KOND	59026	T L	
		45	6.3 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
3.	E O M UREA	10	6.6 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	10	1.0 X10-2 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
1.	E O M UREA	25	5.0 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
2.	E O M UREA	25	5.8 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
3.	E O M UREA	25	6.9 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
4.5	E O M UREA	25	7.9 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	25	1.0 X10-2 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
3.	E O M UREA	45	7.9 X10-3 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	45	1.08 X10-2 M	BB	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
17 ENTRIES FOR COMPOUND									
COMPOUND NO = 113 MOL WGT -			420.5	SODIUM DODECYL TRI-OXYETHYLENE SULFATE					
		01.0	1.25 X10-4 M	CC	SURFACE TENSION LOG PLOT	SCHI	63026	L L	
		10	1.1 X10-4 M	CC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
		25	1.0 X10-4 M	CC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
		45	1.2 X10-4 M	CC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
		50	1.97 X10-3 M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G P	
		55.0	1.4 X10-4 M	CC	SURFACE TENSION LOG PLOT	SCHI	63026	L L	
3.	E O M UREA	10	1.55 X10-4 M	CC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	10	2.85 X10-4 M	CC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
3.	E O M UREA	25	1.5 X10-4 M	CC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	25	2.5 X10-4 M	CC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
3.	E O M UREA	45	1.93 X10-4 M	CC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	45	2.70 X10-4 M	CC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
12 ENTRIES FOR COMPOUND									
COMPOUND NO = 114 MOL WGT -			1,059.4	SODIUM DODECYL /OXYETHYLENE/17.5 SULFATE					
		01.0	7.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L L	
		10	6.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
		25	6.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
		45	4.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
		55.0	4.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L L	
3.	E O M UREA	10	1.3 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	10	2.48 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
3.	E O M UREA	25	1.2 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	25	2.2 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
3.	E O M UREA	45	7.02 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
6.	E O M UREA	45	1.41 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
11 ENTRIES FOR COMPOUND									
COMPOUND NO = 115 MOL WGT -			494.7	DODECYL /OXYETHYLENE/7 ALCOHOL REDUCED POLYDISPERSION OF HEAD GROUPS					
			62019	VALUES FRM REF IN CMC			SCHI ATLA	62020	R
		01.0	1.00 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L L	
		05.0	9.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L L	
		05.0	9.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
		10.0	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L L	
		10	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
		25	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	66025	L L	
		25.0	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T L	
		25	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T L	
		25.0	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives		Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
		40.0	3.2 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
		40.0	62019		VALUES FRM REF IN CMC	SCHI	63026		R
		45	2.8 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
		45.0	2.8 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
		55.0	2.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
3.	E O M UREA	10	1.2 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M UREA	10	2.08 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M UREA	25	6.25 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M UREA	25	1.25 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M UREA	45	3.4 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M UREA	45	5.6 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
2.5	E 1 I 0001	05.0	9.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
5.0	E 1 I 0001	05.0	9.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
7.5	E 1 I 0001	05.0	1.5 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
9.0	E 1 I 0001	05.0	3.0 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
2.5	E 1 I 0001	25.0	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
5.0	E 1 I 0001	25.0	5.1 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
7.5	E 1 I 0001	25.0	7.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
9.0	E 1 I 0001	25.0	2.0 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
2.5	E 1 I 0001	45.0	2.8 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
5.0	E 1 I 0001	45.0	3.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
7.5	E 1 I 0001	45.0	4.2 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
9.0	E 1 I 0001	45.0	1.3 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
	0097	25			SEE CMPD NMBER IN ADDITV	SCHI	66025		X

34 ENTRIES FOR COMPOUND

COMPOUND NO = 116 MOL WGT - 1,508.1 DODECYL /OXYETHYLENE/30 ALCOHOL
REDUCED POLYDISPERSION OF HEAD GROUPS

			64020		VALUES FRM REF IN CMC	SCHI	63026		R
			62019		VALUES FRM REF IN CMC	SCHI	63026		R
			62019		VALUES FRM REF IN CMC	SCHI ATLA	62020		R
		01.0	1.20 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
		01.0	1.20 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
		05.0	1.00 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
		05.0	1.00 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
		05.0	1.0 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
		10.0	9.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
		10	9.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
		25	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
		25.0	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
		25	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
		25.0	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
		40.0	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
		40.0	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
		45	4.8 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
		45.0	4.8 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
		55.0	4.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6	E-1 M LI CL	25	4.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
4.3	E-1 M NA CL	01.0	9.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 M NA CL	01.0	7.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
4.3	E-1 M NA CL	05.0	7.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 M NA CL	05.0	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
4.3	E-1 M NA CL	10.0	5.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 M NA CL	10.0	3.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
4.3	E-1 M NA CL	25	3.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
8.6	E-1 M NA CL	25	2.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
4.3	E-1 M NA CL	40.0	2.0 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 M NA CL	40.0	1.2 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
4.3	E-1 M NA CL	55.0	1.3 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 M NA CL	55.0	8. X10-6 M	EE	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 N NA2 S04	01.0	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 N NA2 S04	05.0	4.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 N NA2 S04	10.0	2.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
4.3	E-1 M NA2 S04	25	1.2 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
8.6	E-1 N NA2 S04	40.0	6. X10-6 M	EE	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 N NA2 S04	55.0	4. X10-6 M	EE	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 M NA CNS	01.0	9.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 M NA CNS	05.0	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 M NA CNS	10.0	6.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 M NA CNS	25	5.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
8.6	E-1 M NA CNS	40.0	4.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 M NA CNS	55.0	3.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
8.6	E-1 M (CH3)4 N CL	25	3.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M UREA	10	3.6 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M UREA	10	7.2 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality

counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molal; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives			Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
3.	E O M	UREA	25	1.6 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M	UREA	25	2.5 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M	UREA	45	6.7 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M	UREA	45	9.45 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
2.5	E O C	0001	05.0	1.0 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
5.0	E O C	0001	05.0	1.6 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
7.5	E O C	0001	05.0	2.5 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
9.0	E O C	0001	05.0	7.0 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
2.5	E O C	0001	25.0	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
5.0	E O C	0001	25.0	9.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
7.5	E O C	0001	25.0	1.6 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
9.0	E O C	0001	25.0	4.6 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
2.5	E O C	0001	45.0	4.8 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
5.0	E O C	0001	45.0	6.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
7.5	E O C	0001	45.0	9.6 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
9.0	E O C	0001	45.0	2.4 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
		0097	25			SEE CMPD NMBR IN ADDITV	SCHI	66025		X
8.6	E-1 M	LI CL	25	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M	UREA								
8.6	E-1 M	LI CL	25	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M	UREA								
4.3	E-1 M	NA CL	25	4.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M	UREA								
4.3	E-1 M	NA CL	25	1.0 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M	UREA								
8.6	E-1 M	NA CL	25	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M	UREA								
8.6	E-1 M	NA CL	25	1.2 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M	UREA								
4.3	E-1 M	NA2 SO4	25	2.9 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M	UREA								
4.3	E-1 M	NA2 SO4	25	3.6 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M	UREA								
8.6	E-1 M	NA CNS	25	8.7 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M	UREA								
8.6	E-1 M	NA CNS	25	1.1 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M	UREA								
8.6	E-1 M	(CH3)4 N CL	25	5.7 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M	UREA								
8.6	E-1 M	(CH3)4 N CL	25	1.0 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M	UREA								
76 ENTRIES FOR COMPOUND										
COMPOUND NO = 117 MOL WGT - 1,564.2 HEXADECYL /OXYETHYLENE/30 ALCOHOL										
REDUCED POLYDISPERSION OF HEAD GROUPS										
			01.0	3.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
			05.0	2.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
			10.0	2.0 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
			10	2.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
			25	1.4 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
			25.0	1.1 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
			25	1.1 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
			40.0	6. X10-6 M	EE	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
			45	5.0 X10-6 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
			55.0	4. X10-6 M	EE	SURFACE TENSION LOG PLOT	SCHI	63026	L	L
3.	E O M	UREA	10	3.2 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M	UREA	10	4.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M	UREA	25	1.6 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M	UREA	25	2.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
3.	E O M	UREA	45	6.35 X10-6 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
6.	E O M	UREA	45	7.9 X10-6 M	EC	SURFACE TENSION LOG PLOT	SCHI	64020	T	L
		0099	25			SEE CMPD NMBR IN ADDITV	SCHI	66025		X
17 ENTRIES FOR COMPOUND										
COMPOUND NO = 118 MOL WGT - 215.3 OCTYL N BETAINE										
			21	2.17 X10-1 M	BC	TURBIDITY PLT LITE SCATR	TORI NAKA	63009	T	L
			23	1.7 X10-1 M	CD	SURFACE TENSION LOG PLOT	BECK WOOD	63015	T	L
			23	1.7 X10-1 M	CD	FOTOMTR SPCTR CHNGE BRPB	BECK WOOD	63015	T	L
			27	2.50 X10-1 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63009	T	L
			27	2.50 X10-1 M	BC	DENSITY	TORI NAKA	63009	T	L
5 ENTRIES FOR COMPOUND										

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
COMPOUND NO = 119 MOL WGT -	243.4	DECYL N BETAINE					
	20	1.68 X10-2 M	BB	SURFACE TENSION LOG PLOT	MOLY RHOD	65003	GL L
	20.2	2.1 X10-2 M	CD	REFRACTIVE INDEX	BECK WOOD	63015	T L
	23	1.8 X10-2 M	CD	FOTOMTR SPCTR CHNGE BRPB	BECK WOOD	63015	T L
	23	2.0 X10-2 M	CD	FOTOMTR SPCTR CHNG I2	BECK WOOD	63015	T L
	23	1.8 X10-2 M	CD	SURFACE TENSION LOG PLOT	BECK WOOD	63015	T L
5 ENTRIES FOR COMPOUND							
COMPOUND NO = 120 MOL WGT -	257.4	UNDECYL N BETAINE					
	20	7.1 X10-3 M	BB	SURFACE TENSION LOG PLOT	MOLY RHOD	65003	GL L
	20.2	6.4 X10-3 M	CC	REFRACTIVE INDEX	BECK WOOD	63015	T L
	23	6.0 X10-3 M	CC	FOTOMTR SPCTR CHNGE BRPB	BECK WOOD	63015	T L
	23	6.4 X10-3 M	CC	FOTOMTR SPCTR CHNG I2	BECK WOOD	63015	T L
	23	6.6 X10-3 M	CC	SURFACE TENSION LOG PLOT	BECK WOOD	63015	T L
5 ENTRIES FOR COMPOUND							
COMPOUND NO = 121 MOL WGT -	271.4	DODECYL N BETAINE					
	10.2	2.0 X10-3 M	BC	REFRACTIVE INDEX	MOLY RHOD	65003	GL L
	20.2	2.1 X10-3 M	CD	REFRACTIVE INDEX	BECK WOOD	63015	T L
	20	2.00 X10-3 M	BB	SURFACE TENSION LOG PLOT	MOLY RHOD	65003	GL L
	20.2	2.1 X10-3 M	BC	REFRACTIVE INDEX	MOLY RHOD	65003	GL L
	23	1.8 X10-3 M	CD	SURFACE TENSION LOG PLOT	BECK WOOD	63015	T L
	23	1.6 X10-3 M	CD	FOTOMTR SPCTR CHNGE BRPB	BECK WOOD	63015	T L
	23	1.8 X10-3 M	CD	FOTOMTR SPCTR CHNG I2	BECK WOOD	63015	T L
	25.2	2.2 X10-3 M	BC	REFRACTIVE INDEX	MOLY RHOD	65003	GL L
	30.0	2.3 X10-3 M	BC	REFRACTIVE INDEX	MOLY RHOD	65003	GL L
	35.7	2.4 X10-3 M	BC	REFRACTIVE INDEX	MOLY RHOD	65003	GL L
	45.1	2.6 X10-3 M	BC	REFRACTIVE INDEX	MOLY RHOD	65003	GL L
	49.7	2.7 X10-3 M	BC	REFRACTIVE INDEX	MOLY RHOD	65003	GL L
	57.0	2.8 X10-3 M	BC	REFRACTIVE INDEX	MOLY RHOD	65003	GL L
13 ENTRIES FOR COMPOUND							
COMPOUND NO = 122 MOL WGT -	299.5	TETRADECYL N BETAINE					
	20	1.78 X10-4 M	BB	SURFACE TENSION LOG PLOT	MOLY RHOD	65003	GL L
	20.2	1.7 X10-4 M	CD	REFRACTIVE INDEX	BECK WOOD	63015	T L
	23	1.8 X10-4 M	CD	SURFACE TENSION LOG PLOT	BECK WOOD	63015	T L
	23	1.5 X10-4 M	CD	FOTOMTR SPCTR CHNGE BRPB	BECK WOOD	63015	T L
	23	1.5 X10-4 M	CD	FOTOMTR SPCTR CHNG I2	BECK WOOD	63015	T L
5 ENTRIES FOR COMPOUND							
COMPOUND NO = 123 MOL WGT -	327.6	HEXADECYL N BETAINE					
	20.2	1.6 X10-5 M	CD	REFRACTIVE INDEX	BECK WOOD	63015	T L
	20	2.52 X10-5 M	BB	SURFACE TENSION LOG PLOT	MOLY RHOD	65003	GL L
	23	2.0 X10-5 M	CD	SURFACE TENSION LOG PLOT	BECK WOOD	63015	T L
	23	1.8 X10-5 M	CD	FOTOMTR SPCTR CHNGE BRPB	BECK WOOD	63015	T L
	23	1.8 X10-5 M	CD	FOTOMTR SPCTR CHNG I2	BECK WOOD	63015	T L
5 ENTRIES FOR COMPOUND							
COMPOUND NO = 124 MOL WGT -	307.9	DODECYL N BETAINE HYDROCHLORIDE					
1 ENTRIES FOR COMPOUND	23	1.90 X10-3 M	CC	SURFACE TENSION LOG PLOT	BECK WOOD	63015	T L
COMPOUND NO = 125 MOL WGT -	336.0	TETRADECYL N BETAINE HYDROCHLORIDE					
1 ENTRIES FOR COMPOUND	23	1.96 X10-3 M	CC	SURFACE TENSION LOG PLOT	BECK WOOD	63015	T L
COMPOUND NO = 126 MOL WGT -	355.3	DODECYL TRIMETHYLAMMONIUM IODIDE					
1 ENTRIES FOR COMPOUND	23			QUESTIONABLE CRITERION	BECK WOOD	63015	R
COMPOUND NO = 127 MOL WGT -	403.3	DODECYL TRIMETHYL AMMONIUM IODATE					
4.95 E-1 W NA IO3	31.5	5.1 X10-3 M	BC	TURBIDITY PLT LITE SCATR	ANAC GHOS	63016	T L
5.1 E-3 M NA BR							
1 ENTRIES FOR COMPOUND							
COMPOUND NO = 128 MOL WGT -	273.5	DODECYL TRIMETHYL AMMONIUM FORMATE					
4.94 E-1 W NA HCO2 FORMATE	31.5	6.0 X10-3 M	BC	DEBYE PLT LIGHT SCATTER	ANAC GHOS	63016	T L
6.0 E-3 M NA BR							
1 ENTRIES FOR COMPOUND							

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source Evaluation
COMPOUND NO = 129 MOL WGT - 4.97 E-1 W NA BR03 3.3 E-3 M NA BR 1 ENTRIES FOR COMPOUND	356.4 31.5	3.3 X10-3 M	DODECYL BC	TRIMETHYL AMMONIUM BROMATE DEBYE PLT LIGHT SCATTER	ANAC GHOS	63016	T L
COMPOUND NO = 130 MOL WGT - 4.92 E-1 W NA F 8.4 E-3 M NA BR 1 ENTRIES FOR COMPOUND	247.4 31.5	8.4 X10-3 M	DODECYL BC	TRIMETHYL AMMONIUM FLUORIDE DEBYE PLT LIGHT SCATTER	ANAC GHOS	63016	T L
COMPOUND NO = 131 MOL WGT - 4.99 E-1 W NA N03 0.8 E-4 M NA BR 1 ENTRIES FOR COMPOUND	290.5 31.5	8. X10-4 M	DODECYL BD	TRIMETHYLAMMONIUM NITRATE DEBYE PLT LIGHT SCATTER	ANAC GHOS	63016	T L
COMPOUND NO = 132 MOL WGT -	229.4		OCTYL C	BETAINE			
	6	1.04	X10-1 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
	21	1.20	X10-1 M	BC	TURBIDITY PLT LITE SCATR	TORI NAKA	63009 T L
	27	9.7	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
	27	1.25	X10-1 M	BC	DENSITY	TORI NAKA	63009 T L
	27	0.5	X10-2 M	DC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
	27	9.7	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63009 T L
	29	8.5	X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63010 T L
	45	9.1	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
	60	8.6	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
	27	8.5	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
	27	7.1	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
5. E-1 M CA CL2	27	8.1	X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
1.0 E 0 M CA CL2	27	7.8	X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
1. E-1 M NA CL	27	7.6	X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
3. E-1 M NA CL	27	8.5	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
5. E-1 M NA CL	27	7.3	X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
5. E-1 M NA CL	27	8.5	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
7. E-1 M NA CL	27	7.3	X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
1.0 E 0 M NA CL	27	6.8	X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
1.0 E 0 M NA CL	27	7.0	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
1.5 E 0 M NA CL	27	6.1	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
2.0 E 0 M NA CL	27	5.2	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
1.00 E 2 I NA OH	27	7.4	X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
5. E-1 M NA2 SO4	27	4.6	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
1.0 E 0 M NA2 SO4	27	2.2	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
1.00 E 2 I NA OH	27	7.2	X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
1. E-1 M NA CL							
1.00 E 2 I NA OH	27	6.0	X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
5. E-1 M NA CL							
25 ENTRIES FOR COMPOUND							
COMPOUND NO = 133 MOL WGT -	257.4		DECYL C	BETAINE			
	10	1.30	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
	21	1.44	X10-2 M	BC	TURBIDITY PLT LITE SCATR	TORI NAKA	63012 T L
	27	1.31	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
	27	9.8	X10-3 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
	27	1.31	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63012 T L
	29	9.8	X10-3 M	BC	FOTOMTR SOLU LZTN SDN 4	TORI NAKA	63010 T L
	45	1.25	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
	60	1.19	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
	27	8.0	X10-3 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
5. E-1 M NA CL	27	1.04	X10-2 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
5. E-1 M NA CL	27	8.0	X10-3 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
1.0 E 0 M NA CL	27	6.5	X10-3 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
1.0 E 0 M NA CL	27	6.2	X10-3 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
1.5 E 0 M NA CL	27	4.8	X10-3 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
2.0 E 0 M NA CL	27	4.8	X10-3 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
14 ENTRIES FOR COMPOUND							
COMPOUND NO = 134 MOL WGT -	285.5		DODECYL C	BETAINE			
	10	1.39	X10-3 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
	21	1.58	X10-3 M	BC	TURBIDITY PLT LITE SCATR	TORI NAKA	63012 T L
	27	1.10	X10-3 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008 T L
	27	1.32	X10-3 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L
	27	1.32	X10-3 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63012 T L
	29	1.1	X10-3 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63010 T L
	45	1.25	X10-3 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008 T L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
5. E-1 M NA CL	60	1.20 X10-3 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008	T	L
5. E-1 M NA CL	27	7.5 X10-4 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008	T	L
1.0 E O M NA CL	7	9.6 X10-4 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008	T	L
1.0 E O M NA CL	27	6.8 X10-4 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008	T	L
1.0 E O M NA CL	27	5.3 X10-4 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008	T	L
1.5 E O M NA CL	27	4.8 X10-4 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008	T	L
2.0 E O M NA CL	27	3.4 X10-4 M	BB	SURFACE TENSION LOG PLOT	TORI NAKA	63008	T	L
14 ENTRIES FOR COMPOUND								
COMPOUND NO = 135 MOL WGT - 265.8 OCTYL C BETAINE HYDROCHLORIDE								
1. E-1 M NA CL	27	6.0 X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008	T	L
2 ENTRIES FOR COMPOUND	27	4.2 X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008	T	L
COMPOUND NO = 136 MOL WGT - 237.3 SODIUM ALPHA DIMETHYL AMINO CAPRATE								
1. E-1 M NA CL	27	9.6 X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008	T	L
2 ENTRIES FOR COMPOUND	27	7.0 X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008	T	L
COMPOUND NO = 137 MOL WGT - 251.8 ALPHA DIMETHYLAMINO CAPRIC ACID HYDROCHLORIDE								
1. E-1 M NA CL	27	8.0 X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008	T	L
2 ENTRIES FOR COMPOUND	27	4.2 X10-2 M	BC	FOTOMTR SOLUBLZTN SDN 4	TORI NAKA	63008	T	L
COMPOUND NO = 138 MOL WGT - 306.3 SODIUM NONYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN								
	25	1.57 X10-2 M	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G	L
	50	1.71 X10-2 M	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	C	L
	75	2.30 X10-2 M	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 139 MOL WGT - 348.4 SODIUM DODECYL BENZENE SULFONATE BRANCHED HYDROCARBON CHAIN								
	25	4.90 X10 3 M	HC	QUESTIONABLE CRITERION	YANG POST	53015		R
	25	4.80 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
	25	5.0 X10-3 M	HB	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
	25	1.53 X10-1 D	HC	SPECFC CONDUCTNCE GRAPH	GINN HARR	60010	G	L
	25	1.23 X10-1 D	HC	SURFACE TENSION UNSPEC	GINN HARR	58008	T	L
	25	7. X10-2 D	HG	VISUAL SPCTR CHNGE PNCN	GINN HARR	58008	T	L
	25	4.1 X10-2 D	HG	FOTOMTR SPCTR CHNGE PNCN	GINN HARR	58008	T	L
	25	1.17 X10-1 D	HE	METHOD NOT CITED	GINN HARR	61014	T	L
	25	1.32 X10-1 D	HG	VISUAL SPCTR CHNGE PNCN	GINN HARR	58008	T	L
	25	1.10 X10-1 D	HG	FOTOMTR SPCTR CHNGE PNCN	GINN HARR	58008	T	L
	25	1.32 X10-1 D	HC	SPECFC CONDUCTNCE GRAPH	GINN HARR	58008	T	L
	25	1.15 X10-1 D	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T	L
	26	1.23 X10-1 D	HE	SURFACE TENSION LOG PLOT	MANK	64010	T	L
	26	3.53 X10-3 M	HC	SURFACE TENSION LOG PLOT	MANK	86021	T	L
	35	1.3 X10-1 D	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T	L
	50	7.5 X10-3 M	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G	L
	60	1.4 X10-1 D	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T	L
	60	7.0 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T	L
	75	8.0 X10-3 M	HE	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G	L
	75	1.75 X10-1 D	HE	METHOD NOT CITED	GINN HARR	61014	T	L
2.1 E O Q C12 DIETHANOLAMIDE	25	5.2 X10-2 D	HG	FOTOMTR SPCTR CHNGE PNCN	GINN HARR	58008	T	L
2.1 E O Q C12 DIETHANOLAMIDE	25	6.7 X10-2 D	HC	SPECFC CONDUCTNCE GRAPH	GINN HARR	58008	T	L
2.1 E O Q C12 DIETHANOLAMIDE	25	2.1 X10-2 D	HC	SURFACE TENSION UNSPEC	GINN HARR	58008	T	L
1. E 2 I NA CL	25	4.50 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
4. E 2 I NA CL	25	3.63 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
1. E 2 I NA2 C03	25	4.00 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
4. E 2 I NA2 C03	25	2.15 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
1. E 2 I NA OH	25	4.10 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
4. E 2 I NA OH	25	3.00 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
1. E 2 I NA4 P207 PYRO	25	3.46 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
4. E 2 I NA4 P207 PYRO	25	2.14 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
1. E 2 I NA P04	25	3.65 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
4. E 2 I NA P04	25	2.12 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
1. E 2 I NA14 P12037 POLY	25	2.88 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
4. E 2 I NA14 P12037 POLY	25	1.55 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
1. E 2 I NA53 P500154 POLY	25	1.90 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
1. E 2 I NA2 SI03 META	25	4.00 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
4.	E 2 I NA2 S103 META	25	2.16 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T L	
2.1	E 0 Q NA5 P3010 TRIPOLY	25	4. X10-2 D	HG	FOTOMTR SPCTR CHNGE PNCN	GINN HARR	58008	T L	
2.1	E 0 Q NA5 P3010 TRIPOLY	25	1.10 X10-1 D	HC	SURFACE TENSION UNSPEC	GINN HARR	58008	T L	
1.	E 2 I NA5 P3010 TRIPOLY	25	3.33 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T L	
4.	E 2 I NA5 P3010 TRIPOLY	25	2.20 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T L	
2.	E 2 I NA5 P3010 TRIPOLY	50	7.0 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T L	
3.33	E 1 Q 0206	82	1.8 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	MANK	64010	T L	
5.0	E 1 Q 0206	82	7.5 X10-3 D	HC	FOTOMTR SOLUBLZTN OROT	MANK	64010	T L	
7.5	E 1 Q 0206	82	5. X10-3 D	HC	FOTOMTR SOLUBLZTN OROT	MANK	64010	T L	
47 ENTRIES FOR COMPOUND									
COMPOUND NO = 140 MOL WGT - 320.4 SODIUM DECYL BENZENE SULFONATE									
BRANCHED HYDROCARBON CHAIN									
		25	4.1 X10-3 M	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G L	
		50	4.8 X10-3 M	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G L	
		75	6.3 X10-3 M	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G L	
3 ENTRIES FOR COMPOUND									
COMPOUND NO = 141 MOL WGT - 362.4 SODIUM TRIDECYL BENZENE SULFONATE									
BRANCHED HYDROCARBON CHAIN									
		25	1.3 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G L	
		25	5. X10-2 D	HE	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T L	
		50	2.8 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G L	
		50	1.0 X10-1 D	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T L	
		75	2.8 X10-3 M	HC	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G L	
		75	1.0 X10-1 D	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T L	
2.	E 2 I NA5 P3010 TRIPOLY	50	3.1 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T L	
7 ENTRIES FOR COMPOUND									
COMPOUND NO = 142 MOL WGT - 390.5 SODIUM PENTADECYL BENZENE SULFONATE									
BRANCHED HYDROCARBON CHAIN									
		25	4.4 X10-4 M	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G L	
		25	1.7 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T L	
		50	6.5 X10-4 M	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G L	
		50	2.1 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T L	
		75	9.4 X10-4 M	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	G L	
		75	3.5 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T L	
2.	E 2 I NA5 P3010 TRIPOLY	50	1. X10-2 D	HE	FOTOMTR SOLUBLZTN OROT	GINN KINN	61015	T L	
7 ENTRIES FOR COMPOUND									
COMPOUND NO = 143 MOL WGT - 378.6 DECYL /OXYETHYLENE/ 5.0 ALCOHOL									
BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
		25	6.3 X10-2 D	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
		50	6.0 X10-2 D	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
		75	4.0 X10-2 D	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
3 ENTRIES FOR COMPOUND									
COMPOUND NO = 144 MOL WGT - 598.9 DECYL /OXYETHYLENE/ 10.0 ALCOHOL									
BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
		25	1.6 X10-1 D	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
		35	1.0 X10-1 D	HE	METHOD NOT CITED	GINN HARR	61014	T L	
		50	9.6 X10-2 D	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
		75	8.5 X10-2 D	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
		75	8.5 X10-2 D	HE	METHOD NOT CITED	GINN HARR	61014	T L	
5 ENTRIES FOR COMPOUND									
COMPOUND NO = 145 MOL WGT - 814.8 DECYL /OXYETHYLENE/ 14.9 ALCOHOL									
BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
		25	2.8 X10-1 D	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
		50	1.44 X10-1 D	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
		75	1.2 X10-1 D	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
		75	1.2 X10-1 D	HE	METHOD NOT CITED	GINN HARR	61014	T L	
4 ENTRIES FOR COMPOUND									
COMPOUND NO = 146 MOL WGT - 1,039.5 DECYL /OXYETHYLENE/ 20.0 ALCOHOL									
BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
		25	6.0 X10-1 D	HB	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/l or kg; W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives	Temp. °C	CMC	Qual. Mat.	Meth.	Method	Authors	Reference	Source	Evaluation
3 ENTRIES FOR COMPOUND	50	2.9	X10-1 D	HB	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	75	1.9	X10-1 D	HB	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
COMPOUND NO = 147 MOL WGT - 1,453.6 DECYL /OXYETHYLENE/ 29.4 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
3 ENTRIES FOR COMPOUND	25	8.3	X10-1 D	HB	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	50	4.5	X10-1 D	HB	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	75	3.4	X10-1 D	HB	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
COMPOUND NO = 148 MOL WGT - 429.5 TRIDECYL /OXYETHYLENE/ 5.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
3 ENTRIES FOR COMPOUND	25	5.8	X10-3 D	HD	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	50	5.0	X10-3 D	HD	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	75	6.5	X10-3 D	HD	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
COMPOUND NO = 149 MOL WGT - 645.4 TRIDECYL /OXYETHYLENE/ 10.1 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
4. E 2 I NA4 P207 PYRO 10 ENTRIES FOR COMPOUND	25	9.	X10-3 D	HD	FOTOMTR SOLUBLZTN	OROT	GINN KINN	59009	T L
	25	1.0	X10-2 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	25	9.2	X10-3 D	HE	METHOD NOT CITED		GINN HARR	61014	T L
	25	9.2	X10-3 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN KINN	61015	T L
	50	7.8	X10-3 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	50	7.8	X10-3 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN KINN	61015	T L
	75	7.6	X10-3 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	75	7.6	X10-3 D	HE	METHOD NOT CITED		GINN HARR	61014	T L
	75	7.57	X10-3 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN KINN	61015	T L
	25	9.	X10-3 D	HD	FOTOMTR SOLUBLZTN	OROT	GINN KINN	59009	T L
COMPOUND NO = 150 MOL WGT - 870.1 TRIDECYL /OXYETHYLENE/ 15.2 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
3 ENTRIES FOR COMPOUND	25	2.3	X10-2 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	50	1.5	X10-2 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	75	1.0	X10-2 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
COMPOUND NO = 151 MOL WGT - 1,081.6 TRIDECYL /OXYETHYLENE/ 20.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
3 ENTRIES FOR COMPOUND	25	3.0	X10-2 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	50	1.9	X10-2 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	75	1.8	X10-2 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
COMPOUND NO = 152 MOL WGT - 1,548.6 TRIDECYL /OXYETHYLENE/ 30.6 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
3 ENTRIES FOR COMPOUND	25	8.0	X10-2 D	HB	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	50	4.6	X10-2 D	HB	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	75	2.5	X10-2 D	HC	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
COMPOUND NO = 153 MOL WGT - 440.6 NONYL BENZENE /OXYETHYLENE/ 5.0 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
3 ENTRIES FOR COMPOUND	25	2.5	X10-3 D	HD	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	50	1.0	X10-3 D	HD	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	75	1.9	X10-3 D	HD	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
COMPOUND NO = 154 MOL WGT - 652.1 NONYL BENZENE /OXYETHYLENE/ 9.8 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
3 ENTRIES FOR COMPOUND	25	4.0	X10-3 D	HD	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	50	4.3	X10-3 D	HD	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L
	75	4.2	X10-3 D	HD	FOTOMTR SOLUBLZTN	OROT	GINN HARR	60010	T L

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol / D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality kg; T - wt % surfactant mixture; U - mol/(l or kg); W - molal; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 155 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	898.9	NONYL BENZENE /OXYETHYLENE/ 15.4 ALCOHOL						
	25	7.0 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	50	7.0 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	75	9.2 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 156 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	1,101.5	NONYL BENZENE /OXYETHYLENE/ 20.0 ALCOHOL						
	25	1.0 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	25	1.55 X10-4 M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
	50	1.0 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	75	1.2 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
8.6 E-1 M NA CL 5 ENTRIES FOR COMPOUND	25	7.8 X10-5 M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
COMPOUND NO = 157 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	1,551.0	NONYL BENZENE /OXYETHYLENE/ 30.2 ALCOHOL						
	25	2.4 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	50	2.0 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	75	1.9 X10-2 D	HC	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 158 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	482.7	DODECYL BENZENE /OXYETHYLENE/ 5.0 ALCOHOL						
	25	7.5 X10-4 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	50	5. X10-4 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	75	5. X10-4 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 159 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	711.8	DODECYL BENZENE /OXYETHYLENE/ 10.2 ALCOHOL						
	25	1.0 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	25	2.4 X10-3 D	HE	METHOD NOT CITED	GINN HARR	61014	T L	
	50	5. X10-4 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	75	5. X10-4 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
5 ENTRIES FOR COMPOUND								
COMPOUND NO = 160 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	927.7	DODECYL BENZENE /OXYETHYLENE/ 15.1 ALCOHOL						
	25	1.5 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	50	1.0 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	75	1.0 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 161 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	1,148.0	DODECYL BENZENE /OXYETHYLENE/ 20.1 ALCOHOL						
	25	2.0 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	50	1.0 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	75	1.0 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 162 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	1,610.7	DODECYL BENZENE /OXYETHYLENE/ 30.6 ALCOHOL						
	25	3.8 X10-3 D	HC	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	50	1.0 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
	75	1.0 X10-3 D	HD	FOTOMTR SOLUBLZTN OROT	GINN HARR	60010	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 163 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	538.8	DODECYL /OXYETHYLENE/ 8 ALCOHOL						
	UNK	5.5 X10-3 D	HC	TURBIDITY PLT LITE SCATR	BECH	59006	T L	
	UNK	5.9 X10-3 D	HC	FOTOMTR SPCTR CHNG I2	BECH	59006	G L	
	UNK	5.9 X10-3 D	HC	TURBIDITY PLT LITE SCATR	BECH	61003	T L	
E 0 CA CL2	25			SUMMARIZING EQN ONLY	BECH	62002	R	
E 0 NA CITRATE	25			SUMMARIZING EQN ONLY	BECH	62002	R	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives		Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
E O	NA CL	25			SUMMARIZING EQN ONLY	BECH	62002		R
E O	NA2 S04	25			SUMMARIZING EQN ONLY	BECH	62002		R
7 ENTRIES FOR COMPOUND									
COMPOUND NO = 164 MOL WGT - 715.0 DODECYL /OXYETHYLENE/ 12 ALCOHOL									
NATURAL DISTRIBUTION OF HEAD GROUPS									
		UNK	6.5 X10-3 D	HC	TURBIDITY PLT LITE SCATR	BECH	59006	T	L
		UNK	6.5 X10-3 D	HC	FOTOMTR SPCTR CHNG I2	BECH	59006	G	L
		UNK	6.5 X10-3 D	HC	TURBIDITY PLT LITE SCATR	BECH	61003	T	L
E O	CA CL2	25			SUMMARIZING EQN ONLY	BECH	62002		R
E O	NA CITRATE	25			SUMMARIZING EQN ONLY	BECH	62002		R
E O	NA CL	25			SUMMARIZING EQN ONLY	BECH	62002		R
E O	NA2 S04	25			SUMMARIZING EQN ONLY	BECH	62002		R
7 ENTRIES FOR COMPOUND									
COMPOUND NO = 165 MOL WGT - 979.4 DODECYL /OXYETHYLENE/ 18 ALCOHOL									
NATURAL DISTRIBUTION OF HEAD GROUPS									
		UNK	8.5 X10-3 D	HC	TURBIDITY PLT LITE SCATR	BECH	59006	T	L
		UNK	8.0 X10-3 D	HC	FOTOMTR SPCTR CHNG I2	BECH	59006	G	L
		UNK	8.0 X10-3 D	HC	TURBIDITY PLT LITE SCATR	BECH	61003	T	L
E O	CA CL2	25			SUMMARIZING EQN ONLY	BECH	62002		R
E O	NA CITRATE	25			SUMMARIZING EQN ONLY	BECH	62002		R
E O	NA CL	25			SUMMARIZING EQN ONLY	BECH	62002		R
E O	NA2 S04	25			SUMMARIZING EQN ONLY	BECH	62002		R
7 ENTRIES FOR COMPOUND									
COMPOUND NO = 166 MOL WGT - 1,199.7 DODECYL /OXYETHYLENE/ 23 ALCOHOL									
NATURAL DISTRIBUTION OF HEAD GROUPS									
		UN	1.1 X10-2 D	HD	FOTOMTR SPCTR CHNG BZP4	BECH	65013	T	L
		UNK	1.4 X10-2 D	HD	TURBIDITY PLT LITE SCATR	BECH	59006	T	L
		UNK	1.1 X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	59006	G	L
		UNK	5.8 X10-3 D	HC	FOTOMTR SPCTR CHNG I2	ROSS OLIV	59020	T	L
		UNK	6. X10-3 D	HE	SURFACE TENSION LOG PLOT	ROSS OLIV	59020	T	I
		UNK	1.1 X10-2 D	HD	METHOD NOT CITED	BECH	63020	T	L
		UNK	1.1 X10-2 D	HD	TURBIDITY PLT LITE SCATR	BECH	61003	T	L
		UNK	1.1 X10-2 D	HD	FOTOMTR SPCTR CHNG BZP4	BECH	62001	T	L
		UNK	1.1 X10-2 D	HD	SURFACE TENSION UNSPEC	BECH	62001	T	L
		UNK	1.1 X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	62001	T	L
		UNK	1.4 X10-2 D	HD	TURBIDITY PLT LITE SCATR	BECH CLIF	59005	T	L
E O	CA CL2	25			SUMMARIZING EQN ONLY	BECH	62002		R
1.1 E O A	DIOXANE	UN	1.3 X10-2 D	HD	FOTOMTR SPCTR CHNG BZP4	BECH	65013	T	L
2.3 E O A	DIOXANE	UN	2.0 X10-2 D	HD	FOTOMTR SPCTR CHNG BZP4	BECH	65013	T	L
3.6 E O A	DIOXANE	UN	2.6 X10-2 D	HD	FOTOMTR SPCTR CHNG BZP4	BECH	65013	T	L
5.0 E O A	DIOXANE	UN	3.6 X10-2 D	HD	FOTOMTR SPCTR CHNG BZP4	BECH	65013	T	L
1.6 E O A	ETHANOL	UN	1.2 X10-2 D	HD	FOTOMTR SPCTR CHNG BZP4	BECH	65013	T	L
3.3 E O A	ETHANOL	UN	1.5 X10-2 D	HD	FOTOMTR SPCTR CHNG BZP4	BECH	65013	T	L
5.2 E O A	ETHANOL	UN	2.0 X10-2 D	HD	FOTOMTR SPCTR CHNG BZP4	BECH	65013	T	L
7.0 E O A	ETHANOL	UN	2.9 X10-2 D	HD	FOTOMTR SPCTR CHNG BZP4	BECH	65013	T	L
E O	NA CITRATE	25			SUMMARIZING EQN ONLY	BECH	62002		R
E O	NA CL	25			SUMMARIZING EQN ONLY	BECH	62002		R
E O	NA2 S04	25			SUMMARIZING EQN ONLY	BECH	62002		R
5. E O P	SUCROSE	UNK	1.1 X10-2 D	HD	METHOD NOT CITED	BECH	63020	T	L
1.0 E 1 P	SUCROSE	UNK	1.1 X10-2 D	HD	METHOD NOT CITED	BECH	63020	T	L
1.5 E 1 P	SUCROSE	UNK	1.0 X10-2 D	HD	METHOD NOT CITED	BECH	63020	T	L
2.0 E 1 P	SUCROSE	UNK	9.3 X10-3 D	HD	METHOD NOT CITED	BECH	63020	T	L
27 ENTRIES FOR COMPOUND									
COMPOUND NO = 167 MOL WGT - 660.9 NONYL BENZENE /OXYETHYLENE/ 10 ALCOHOL									
BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
		75	4. X10-3 D	HE	METHOD NOT CITED	GINN HARR	61014	T	L
		UNK	6.4 X10-3 D	HC	TURBIDITY PLT LITE SCATR	BECH	61003	T	L
E O	NA CL	25			SUMMARIZING EQN ONLY	BECH	62002		R
3 ENTRIES FOR COMPOUND									
COMPOUND NO = 168 MOL WGT - 881.2 NONYL BENZENE /OXYETHYLENE/ 15 ALCOHOL									
BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
		25	1.2 X10-4 M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T	L
		25	8.3 X10-3 D	HC	TURBIDITY PLT LITE SCATR	BECH	62002	T	L
		25	7.7 X10-3 D	HC	FOTOMTR SPCTR CHNG I2	BECH	62002	T	L
		25	8.1 X10-3 D	HC	SURFACE TENSION UNSPEC	BECH	62002	T	L
		UNK	7.7 X10-3 D	HC	TURBIDITY PLT LITE SCATR	BECH	61003	T	L

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality; T - wt % surfactant mixture; U - mol/(l or kg); W - molal; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives		Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
		UNK	7.4 X10 ⁻³ D	HC	FOTOMTR SPCTR CHNG BZP4	BECH	62001	T L	
		UNK	8.1 X10 ⁻³ D	HC	SURFACE TENSION UNSPEC	BECH	62001	T L	
		UNK	7.7 X10 ⁻³ D	HC	FOTOMTR SPCTR CHNG I2	BECH	62001	T L	
8.6	E-1 M H CL	25	1.20 X10 ⁻⁴ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
3.1	E 0 M H CL	25	1.50 X10 ⁻⁴ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
8.6	E-1 M H N03	25	1.30 X10 ⁻⁴ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
3.1	E 0 M H N03	25	2.90 X10 ⁻⁴ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
5.	E-1 M NA BR	25	1.00 X10 ⁻⁴ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
5.	E-1 M NA BR03	25	7.6 X10 ⁻⁵ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
5.	E-1 M NA CL	25	8.4 X10 ⁻⁵ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
8.6	E-1 M NA CL	25	5.1 X10 ⁻⁵ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
	E 0 NA CL	25			SUMMARIZING EQN ONLY	BECH	62002	R	
5.	E-1 M NA I	25	1.08 X10 ⁻⁴ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
5.	E-1 M NA N03	25	9.7 X10 ⁻⁵ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
5.	E-1 M NA OH	25	5.1 X10 ⁻⁵ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
	0337				SEE CMPD NMBR IN ADDITV	HSIA DUNN	56014	X	
21 ENTRIES FOR COMPOUND									
COMPOUND NO = 169 MOL WGT - 1,542.1 NONYL BENZENE /OXYETHYLENE/ 30 ALCOHOL BRANCHED CHAIN, NATURAL OE DISTRIBUTION									
		25	2.75 X10 ⁻⁴ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
		UNK	2.36 X10 ⁻² D	HC	TURBIDITY PLT LITE SCATR	BECH	61003	T L	
8.6	E-1 M NA CL	25	1.10 X10 ⁻⁴ M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T L	
	E 0 NA CL	25			SUMMARIZING EQN ONLY	BECH	62002	R	
	0337				SEE CMPD NMBR IN ADDITV	HSIA DUNN	56014	X	
5 ENTRIES FOR COMPOUND									
COMPOUND NO = 170 MOL WGT - 1,420.0 DODECYL /OXYETHYLENE/ 28 ALCOHOL REDUCED DISTRIBUTION OF HEAD GROUPS									
		25	1.09 X10 ⁻² D	EC	ULTRAFILTRATION	SCHO	64004	T L	
			7.670X10 ⁻⁵ M					M	
		25	1.1 X10 ⁻² D	EE	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T L	
			7.74 X10 ⁻⁵ M					M	
2 ENTRIES FOR COMPOUND									
COMPOUND NO = 171 MOL WGT - 348.4 SODIUM 2-N-DODECYL BENZENE SULFONATE									
		25	1.19 X10 ⁻³ M	FA	SPECFC CONDUCTNCE GRAPH	LUDL	56005	T P	
		25	7.3 X10 ⁻² D	CB	UNSPECIFIED CONDUCTANCE	SCHI FOWK	57014	T L	
		25	2.09 X10 ⁻³ M					M	
		25	6.5 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.86 X10 ⁻³ M					M	
		30	1.19 X10 ⁻³ M	FA	SPECFC CONDUCTNCE GRAPH	LUDL	56005	T P	
		55	5.9 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.69 X10 ⁻³ M					M	
2.22	E 1 Q CAPRYLAMIDE	55	5.0 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.43 X10 ⁻³ M					M	
2.22	E 1 Q N-C10 GLYCEROL ETHER	55	3.3 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			9.47 X10 ⁻⁴ M					M	
2.22	E 1 Q DECANOL-1	55	4.1 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.17 X10 ⁻³ M					M	
2.22	E 1 Q N-C10 SULFOLANYL ETH	55	3.5 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.00 X10 ⁻³ M					M	
2.22	E 1 Q TETRADECANOL-2	55	6.0 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.72 X10 ⁻³ M					M	
2.22	E 1 Q ISOC5 GLYCEROL ETHER	55	5.4 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.54 X10 ⁻³ M					M	
2.22	E 1 Q C12 CLORHYDRIN GLET*	55	5.7 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.63 X10 ⁻³ M					M	
5.55	E 0 Q C12 ETHANOL AMIDE	55	4.7 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.34 X10 ⁻³ M					M	
1.11	E 1 Q C12 ETHANOL AMIDE	55	3.7 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.06 X10 ⁻³ M					M	
1.67	E 1 Q C12 ETHANOL AMIDE	55	3.2 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			9.18 X10 ⁻⁴ M					M	
2.22	E 1 Q C12 ETHANOL AMIDE	55	3.1 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			9.86 X10 ⁻⁴ M					M	
2.22	E 1 Q C12 GLYCEROL ETHER	55	2.9 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			8.32 X10 ⁻⁴ M					M	
2.22	E 1 Q C12 SULFOLANYLAMIDE	55	3.5 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.00 X10 ⁻³ M					M	
2.22	E 1 Q C8 GLYCEROL ETHER	55	3.6 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.03 X10 ⁻³ M					M	
2.22	E 1 Q N-3SOA*	55	4.8 X10 ⁻² D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	
			1.37 X10 ⁻³ M					M	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
2.22 E 1 Q TMCHCGLET*	55	5.3 X10-2 D 1.52 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
2.0 E 1 Q NA2 SO4	55	3.2 X10-2 D 9.18 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
2.0 E 1 Q NA2 SO4	55	4.0 X10-2 D 1.14 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
5.1 E 0 Q C12 ETHANOL AMIDE								
2.0 E 1 Q NA2 SO4	55	3.6 X10-2 D 1.14 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
8.8 E 0 Q C12 ETHANOL AMIDE								
2.0 E 1 Q NA2 SO4	55	2.8 X10-2 D 8.03 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
3.52 E 1 Q C12 ETHANOL AMIDE								
8.0 E 1 Q NA2 SO4	55	3.4 X10-2 D 9.75 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
4.4 E 0 Q C12 ETHANOL AMIDE								
8.0 E 1 Q NA2 SO4	55	3.1 X10-2 D 8.89 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
8.8 E 0 Q C12 ETHANOL AMIDE								
8.0 E 1 Q NA2 SO4	55	2.8 X10-2 D 8.03 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
1.76 E 1 Q C12 ETHANOL AMIDE								
8.0 E 1 Q NA2 SO4	55	2.7 X10-2 D 7.74 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
3.52 E 1 Q C12 ETHANOL AMIDE								
29 ENTRIES FOR COMPOUND								
COMPOUND NO = 172 MOL WGT -		292.3	SODIUM	2-N-OCTYL BENZENE SULFONATE				
		55		CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L
								M
2.22 E 1 Q N-C10 GLYCEROL ETHER	55	1.902X10-2 M 3.47 X10-1 D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
2.22 E 1 Q C12 ETHANOL AMIDE	55	1.187X10-2 M 3.43 X10-1 D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
2.22 E 1 Q C8 GLYCEROL ETHER	55	1.173X10-2 M 3.33 X10-1 D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
								M
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 173 MOL WGT -		320.4	SODIUM	2-N-DECYL BENZENE SULFONATE				
		55		CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L
								M
2.22 E 1 Q C12 ETHANOL AMIDE	55	5.586X10-3 M 1.01 X10-1 D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
								M
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 174 MOL WGT -		376.5	SODIUM	2-N-TETRADECYL BENZENE SULFONATE				
		55		CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L
								M
2.22 E 1 Q C12 ETHANOL AMIDE	55	3.98 X10-4 M 1.4 X10-2 D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
								M
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 175 MOL WGT -		272.3	SODIUM	DODECANE 2-SULFONATE				
		55		CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L
								M
2.22 E 1 Q N-C10 GLYCEROL ETHER	55	1.406X10-2 M 2.08 X10-1 D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
								M
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 176 MOL WGT -		300.4	SODIUM	TETRADECANE 2-SULFONATE				
		55		CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L
								M
2.22 E 1 Q N-C10 GLYCEROL ETHER	55	3.761X10-3 M 6.9 X10-2 D	CG	VISUAL SPCTR CHNGE PNCN	SCHI WK	57014	T L	M
								M
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 177 MOL WGT -		328.4	SODIUM	HEXADECANE 2-SULFONATE				
		55		CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L
								M
2.22 E 1 Q N-C10 GLYCEROL ETHER	55	1.06 X10-3 M 2.2 X10-2 D	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	M
								M
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 178 MOL WGT -		356.5	SODIUM	OCTADECANE 2-SULFONATE				
		55		CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L
								M
								M

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
2.22 E 1 Q N-C10 GLYCEROL ETHER	55	9. X10-3 D 2.5 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 179 MOL WGT -	272.3	SODIUM DODECANE 1-SULFONATE						
		47005		VALUES FRM REF IN CMC	KLEV	48005		R
	25	9.8 X10-3 M	AB	SURFACE TENSION LOG PLOT	BUJA GODD	65007	L 3	
	31.5	9.8 X10-3 W	DB	KRAFFT POINT SOLUBILITY	TART WRIG	39002	T L	
	33.5	9.2 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T L	
	33.5	9.2 X10-3 M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T L	
	35	9.0 X10-3 M	BC	ELECTROMOTIVE FORCE	CORK GOOD	64012	K L	
	35	1.05 X10-2 M	CC	REFRACTIVE INDEX	KLEV	47004	T L	
	35	1.0 X10-2 M	CD	REFRACTIVE INDEX	KLEV	47005	T L	
	40	1.10 X10-2 M	DD	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T L	
	40	1.0 X10-2 M	DB	REFRACTIVE INDEX	KLEV	48005	T L	
	40	9.7 X10-3 M	AB	SURFACE TENSION LOG PLOT	BUJA GODD	65007	L 3	
	40	1.1 X10-2 N	CC	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T L	
	45	1.1 X10-2 M	CD	REFRACTIVE INDEX	KLEV	47005	T L	
	50	1.1 X10-2 M	DD	REFRACTIVE INDEX	KLEV	48005	T L	
	50	6.9 X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	65013	T L	
	55	2.88 X10-1 D 1.057X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	L
								M
	55	1.2 X10-2 M	CD	REFRACTIVE INDEX	KLEV	47005	T L	
	60	1.20 X10-2 M	DB	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T L	
	65	1.4 X10-2 M	CD	REFRACTIVE INDEX	KLEV	47005	T L	
	80	1.40 X10-2 M	DB	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T L	
	UNK	1.1 X10-2 M	XG	METHOD NOT CITED	KLEV RAIS	54004	T L	
2.2 E-1 P BENZENE	33.5	7.5 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T L	
2.22 E 1 Q N-C10 GLYCEROL ETHER	55	1.17 X10-1 D 4.296X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	SCHI FOWK	57014	T L	L
								M
1.00 E 2 I NA CL	40	8.1 X10-3 M	DB	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T L	
1.00 E 2 I NA CL	60	9.2 X10-3 M	DB	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T L	
1.00 E 2 I NA CL	80	1.17 X10-2 M	DB	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T L	
26 ENTRIES FOR COMPOUND								
COMPOUND NO = 181 MOL WGT -	216.2	SODIUM OCTYL 1-SULFONATE						
	23	1.55 X10-1 N	CB	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T 3	
	25	1.4 X10-1 M	CG	VISUAL SPCTR CHNGE PNCN	LELO TART	51003	L L	
	25	1.55 X10-1 M	CC	REFRACTIVE INDEX	KLEV	48005	T 3	
	25	1.53 X10-1 M	CC	REFRACTIVE INDEX	KLEV	47004	T L	
	25	1.45 X10-1 M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T L	
	40	1.62 X10-1 M	CC	REFRACTIVE INDEX	KLEV	48005	T 3	
	50	1.77 X10-1 M	CC	REFRACTIVE INDEX	KLEV	48005	T L	
7 ENTRIES FOR COMPOUND								
COMPOUND NO = 182 MOL WGT -	244.3	SODIUM DECYL 1-SULFONATE						
		47005		VALUES FRM REF IN CMC	KLEV	48005		R
		47006		VALUES FRM REF IN CMC	CORR HARK	46005		R
	22.5	4.0 X10-2 W	DB	KRAFFT POINT SOLUBILITY	TART WRIG	39002	T L	
	25	3.8 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T L	
	25	4.2 X10-2 M	CC	REFRACTIVE INDEX	KLEV	47004	T L	
	25	4.1 X10-2 M	CC	REFRACTIVE INDEX	KLEV	47005	T L	
	25	3.8 X10-2 M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T L	
	26	4.00 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47006	T L	
	26	3.87 X10-2 M	CG	VISUAL SPCTR CHNGE RHD6	CORR HARK	47006	T L	
	26	4.00 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T L	
	30	3.8 X10-2 N	CC	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T L	
	30	1.066X10 0 D 4.363X10-2 M	BA	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T 2	
								M
	35	4.2 X10-2 M	CC	REFRACTIVE INDEX	KLEV	47005	T L	
	40	4.0 X10-2 M	DB	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T L	
	40	4.1 X10-2 M	DC	REFRACTIVE INDEX	KLEV	48005	T L	
	45	4.5 X10-2 M	CC	REFRACTIVE INDEX	KLEV	47005	T L	
	50	4.5 X10-2 M	DC	REFRACTIVE INDEX	KLEV	48005	T L	
	55	4.9 X10-2 M	CC	REFRACTIVE INDEX	KLEV	47005	T L	
	60	4.3 X10-2 M	DR	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T L	
	65	5.5 X10-2 M	CC	REFRACTIVE INDEX	KLEV	47005	T L	
	80	5.8 X10-2 M	DB	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T L	
	UNK	4.00 X10-2 M	CG	METHOD NOT CITED	HARK MITT	49006	T L	
2.2 E-1 P BENZENE	25	3.4 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T L	
3.40 E-2 P BENZENE	UNK	3.81 X10-2 M	CG	METHOD NOT CITED	HARK MITT	49006	T L	
5.50 E-2 P BENZENE	UNK	3.86 X10-2 M	CG	METHOD NOT CITED	HARK MITT	49006	T L	
8.9 E-2 P BENZENE	UNK	3.89 X10-2 M	CG	METHOD NOT CITED	HARK MITT	49006	T L	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
1.22 E-1 P BENZENE	UNK	3.82 X10-2 M	CG	METHOD NOT CITED	HARK MITT	49006	T	L
1.47 E-1 P BENZENE	UNK	3.85 X10-2 M	CG	METHOD NOT CITED	HARK MITT	49006	T	L
4.92 E-3 M NA CL	26	3.82 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T	L
1.35 E-2 M NA CL	26	3.50 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T	L
2.86 E-2 M NA CL	26	3.17 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T	L
5.27 E-2 M NA CL	26	2.93 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T	L
1.0 E-1 M NA CL	30	5.364X10-1 D 2.195X10-2 M	BA	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T	2 M
4.21 E-3 M NA2 SO4	26	3.72 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T	L
7.97 E-3 M NA2 SO4	26	3.52 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T	L
1.98 E-2 M NA2 SO4	26	3.12 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T	L
3.46 E-2 M NA2 SO4	26	2.73 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	CORR HARK	47010	T	L
37 ENTRIES FOR COMPOUND								
COMPOUND NO = 183 MOL WGT - 300.4 SODIUM TETRADECYL 1-SULFONATE								
	39.5	2.7 X10-3 W	DB	KRAFFT POINT SOLUBILITY	TART WRIG	39002	T	L
	40	2.5 X10-3 M	DB	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T	L
	40	2.5 X10-3 M	CC	REFRACTIVE INDEX	KLEV	48005	T	L
	42.5	2.5 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T	L
	42.5	2.5 X10-3 M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T	L
	45	2.0 X10-3 M	CC	REFRACTIVE INDEX	KLEV	48005	T	L
	45	3.15 X10-3 M	CC	REFRACTIVE INDEX	KLEV	47004	T	L
	50	2.9 X10-3 M	CC	REFRACTIVE INDEX	KLEV	48005	T	L
	50	2.03 X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	63013	T	L
	60	3.3 X10-3 M	DB	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T	L
	60	3.3 X10-3 N	DC	UNSPECIFIED CONDUCTANCE	TART LELO	55021	TA	L
	80	4.6 X10-3 M	DB	SPECFC CONDUCTNCE GRAPH	WRIG ABBO	39007	T	L
2.2 E-1 P BENZENE	42.5	1.8 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	KLEV	50003	T	L
13 ENTRIES FOR COMPOUND								
COMPOUND NO = 184 MOL WGT - 328.4 SODIUM HEXADECYL 1-SULFONATE								
	47.5	1.05 X10-3 W	DB	KRAFFT POINT SOLUBILITY	TART WRIG	39002	T	L
	50	7. X10-4 M	CD	REFRACTIVE INDEX	KLEV	48005	T	L
	50	8.0 X10-4 M	CG	FOTOMTR SPCTR CHNGE PNCN	KLEV	47004	T	L
	50	4.5 X10-4 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	63013	T	L
	52	9. X10-4 M	CD	REFRACTIVE INDEX	KLEV	48005	T	L
	52	1.15 X10-3 M	CC	REFRACTIVE INDEX	KLEV	47004	T	L
6 ENTRIES FOR COMPOUND								
COMPOUND NO = 185 MOL WGT - 294.5 POTASSIUM HEXADECANOATE								
	35	1.8 X10-3 M	DD	REFRACTIVE INDEX	KLEV	48005	T	L
	45	1.9 X10-3 M	DD	REFRACTIVE INDEX	KLEV	48005	T	L
	50	2.2 X10-3 M	XC	REFRACTIVE INDEX	KLEV	53010	T	L
1. E-1 K K ION	UNK	9.0 X10-5 M	CC	SURFACE TENSION LOG PLOT	ROE BRAS	54013	T	L
1.23 E 1 PH OF SOLUTION								
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 186 MOL WGT - 277.9 HEXADECYL AMMONIUM CHLORIDE								
	40	1.07 X10-3 M	CB	SPECFC CONDUCTNCE GRAPH	SHIR TAMA	57016	P	L
	50	8. X10-4 M	CD	REFRACTIVE INDEX	KLEV	48005	TA	L
	55	8.5 X10-4 M	XE	REFRACTIVE INDEX	KLEV	53010	T	L
	60	9.9 X10-4 M	CC	EQUIV CONDUCTNCE GRAPH	RAIS HOER	42002	P	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 187 MOL WGT - 306.0 OCTADECYL AMMONIUM CHLORIDE								
	60	3 X10-4 M	CD	EQUIV CONDUCTNCE GRAPH	RAIS HOER	42002	T	L
	60	2.5 X10-4 M	CD	REFRACTIVE INDEX	KLEV	48005	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 188 MOL WGT - 154.2 POTASSIUM HEXANOATE								
	25	1.55 X10 0 M	DC	REFRACTIVE INDEX	KLEV	48005	T	L
	25	1.68 X10 0 M	BG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L
	UNK	1.5 X10 0 M	XG	METHOD NOT CITED	KLEV RAIS	54004	T	L
2. E O I K OH	25	1.60 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G	L
5. E-5 N PINACYANOL CL (DYE)	25	1.22 X10 0 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
1. F-4 N PINACYANOL CL (DYE)	25	1.49 X10 0 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
1. E-4 N PINACYANOL CL (DYE)	25	1.0 X10 0 M	DG	FOTOMTR SPCTR CHNGE PNCN	HERZ	52015	T	L
2. E-4 N PINACYANOL CL (DYE)	25	1.48 X10 0 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
5.1 E O C 0044	25	1.28 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G	L
2. E O I K OH								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values — Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source Evaluation
1.27 E 1 C 0044	25	1.05 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
2.48 E 1 C 0044	25	8.0 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
4.58 E 1 C 0044	25	6.0 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
6.92 E 1 C 0044	25	4.9 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
1.8 E O C 0090	25	1.07 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
3.8 E O C 0090	25	7.3 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
8.9 E O C 0090	25	4.7 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
2.16 E 1 C 0090	25	2.8 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
3.53 E 1 C 0090	25	2.1 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
8. E-1 C 0092	25	2.8 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
1.1 E O C 0092	25	2.0 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
1.5 E O C 0092	25	1.1 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
4.8 E O C 0092	25	5.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
5.3 E O C 0296	25	1.52 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
1.00 E 1 C 0296	25	1.44 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
1.60 E 1 C 0296	25	1.36 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
2.34 E 1 C 0296	25	1.28 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
3.11 E 1 C 0296	25	1.19 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
3.33 E 1 C 0296	25	1.16 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
2. E O I K OH							
3.85 E 1 C 0296	25	1.13 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
4.92 E 1 C 0296	25	1.04 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
6.44 E 1 C 0296	25	9.6 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
7.78 E 1 C 0296	25	9.0 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
8. E-1 C 0297	25	8.7 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
2.1 E O C 0297	25	5.8 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
3.9 E O C 0297	25	3.5 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
1.00 E 1 C 0297	5	2.1 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
2.63 E 1 C 0297	25	1.4 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L
2. E O I K OH							
8.8 E O C 0296	25	4.5 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
7.36 E 1 C 0044							
2. E O I K OH							
1.49 E 1 C 0296	25	5.2 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
5.54 E 1 C 0044							
2. E O I K OH							
1.93 E 1 C 0296	25	5.9 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
4.20 E 1 C 0044							
2. E O I K OH							
2.28 E 1 C 0296	25	6.6 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
3.17 E 1 C 0044							
2. E O I K OH							
2.55 E 1 C 0296	25	7.2 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
2.36 E 1 C 0044							
2. E O I K OH							
2.76 E 1 C 0296	25	8.2 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L L
1.72 E 1 C 0044							
2. E O I K OH							

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
2.94 E 1 C 0296	25	9.0 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
1.17 E 1 C 0044								
2. E O I K OH								
3.10 E 1 C 0296	25	9.8 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
7.2 E O C 0044								
2. E O I K OH								
3.22 E 1 C 0296	25	1.07 X10 0 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	L	L
3.3 E O C 0044								
2. E O I K OH								
46 ENTRIES FOR COMPOUND								
COMPOUND NO = 189 MOL WGT - 308.4 ALPHA SULFOMYRISTIC ACID								
	25	1.3 X10-1 D	CD	EQUIV CONDCTNCE GRAPH	WEIL STIR	56008	T	L
		4.21 X10-3 M					M	
	25	5.2 X10-3 M	CC	EQUIV CONDCTNCE GRAPH	WEIL STIR	56008	K	3
	28	7. X10-2 D	CD	SURFACE TENSION UNSPEC	WEIL STIR	56008	T	L
		2.2 X10-3 M					M	
	UNK	2.27 X10-3 M	CB	SURFACE TENSION UNSPEC	MAUR STIR	64002	L	L
	RM	7.5 X10-2 D	CG	FOTOMTR SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		2.43 X10-3 M					M	
	RM	8. X10-2 D	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		2.5 X10-3 M					M	
6 ENTRIES FOR COMPOUND								
COMPOUND NO = 190 MOL WGT - 336.4 ALPHA SULFOPALMITIC ACID								
	28	2. X10-2 D	CE	SURFACE TENSION UNSPEC	WEIL STIR	56008	T	L
		5.9 X10-4 M					M	
	UNK	6.0 X10-4 M	CB	SURFACE TENSION UNSPEC	MAUR STIR	64002	L	L
	RM	2.3 X10-2 D	CG	FOTOMTR SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		6.83 X10-4 M					M	
	RM	1.7 X10-2 D	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		5.05 X10-4 M					M	
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 191 MOL WGT - 364.5 ALPHA SULFOSTEARIC ACID								
	28	5. X10-3 D	CD	SURFACE TENSION UNSPEC	WEIL STIR	56008	T	L
		1.3 X10-4 M					M	
	UNK	1.4 X10-4 M	CD	SURFACE TENSION UNSPEC	MAUR STIR	64002	L	L
	RM	4. X10-3 D	CG	FOTOMTR SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		1.0 X10-4 M					M	
	RM	5. X10-3 D	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		1.3 X10-4 M					M	
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 192 MOL WGT - 386.5 SODIUM ETHYL ALPHA SULFOPALMITATE								
	28	9. X10-3 D	CD	SURFACE TENSION UNSPEC	WEIL STIR	56008	T	L
		2.3 X10-4 M					M	
	RM	1.3 X10-2 D	CG	FOTOMTR SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		3.36 X10-4 M					M	
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 193 MOL WGT - 400.5 SODIUM PROPYL ALPHA SULFOPALMITATE								
	28	4. X10-3 D	CD	SURFACE TENSION UNSPEC	WEIL STIR	56008	T	L
		9.9 X10-5 M					M	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 194 MOL WGT - 400.5 SODIUM METHYL ALPHA SULFOSTEARATE								
	28	4. X10-3 D	CD	SURFACE TENSION UNSPEC	WEIL STIR	56008	T	L
		9.9 X10-5 M					M	
	UNK	8. X10-5 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	T	L
	RM	4. X10-3 D	CG	FOTOMTR SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		9.9 X10-5 M					M	
	RM	3. X10-3 D	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		7.4 X10-5 M					M	
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 195 MOL WGT - 414.5 SODIUM ETHYL ALPHA SULFOSTEARATE								
	28	5. X10-3 D	CD	SURFACE TENSION UNSPEC	WEIL STIR	56008	T	L
		1.2 X10-4 M					M	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives	Temp. °C	CMC	Qual. Mar. Meth.	Method	Authors	Reference	Source	Evaluation
	RM	2. X10-3 D	CG	FOTOMTR SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		4.8 X10-5 M					M	
	RM	2. X10-3 D	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		4.8 X10-5 M					M	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 196	MOL WGT -	428.6	SODIUM PROPYL ALPHA SULFOSTEARATE					
		5. X10-4 D	CD	SURFACE TENSION UNSPEC	WEIL STIR	56008	T	L
		1.1 X10-5 M					M	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 197	MOL WGT -	488.5	DISODIUM 2 SULFOETHYL ALPHA SULFOPALMITATE					
		5.3 X10-1 D	CC	EQUIV CONDUCTNCE GRAPH	WEIL STIR	56008	T	L
		1.08 X10-2 M					M	
	RM	3. X10-1 D	CG	FOTOMTR SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		6.1 X10-3 M					M	
	RM	4. X10-1 D	CC	VISUAL SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		8.1 X10-3 M					M	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 198	MOL WGT -	516.5	DISODIUM 2 SULFOETHYL ALPHA SULFOSTEARATE					
		1.6 X10-1 D	CC	EQUIV CONDUCTNCE GRAPH	WEIL STIR	56008	T	L
		3.09 X10-3 M					M	
		1.3 X10-1 D	CD	SURFACE TENSION UNSPEC	WEIL STIR	56008	T	L
		2.51 X10-3 M					M	
	RM	1.0 X10-1 D	CG	FOTOMTR SPCTR CHNGE PNCN	WEIL STIR	56008	T	L
		1.93 X10-3 M					M	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 199	MOL WGT -	428.6	SODIUM ISOPROPYL ALPHA SULFOSTEARATE					
		1. X10-3 D	CE	SURFACE TENSION UNSPEC	WEIL STIR	56008	T	L
		2.3 X10-5 M					M	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 200	MOL WGT -	250.3	DODECYL SULFONIC ACID					
		1.00 X10-2 M	CC	SPECFC CONDUCTNCE GRAPH	BRAD HUFF	48004	T	L
		9.5 X10-3 W	CB	FREEZING POINT	MCBA DYE	39011	K	L
		8.5 X10-3 M	CC	SPECFC CONDUCTNCE GRAPH	BRAD HUFF	48004	T	L
		9.2 X10-3 W	CB	EQUIV CONDUCTNCE GRAPH	MCBA DYE	39011	K	L
		8. X10-2 W	CF	EQUIV CONDUCTNCE GRAPH	MCBA DYE	39011	T	L
		7.5 X10-3 M	BB	SURFACE TENSION LOG PLOT	BRAD	48022	T	L
		9.2 X10-3 W	CC	ELECTROMOTIVE FORCE	TART LING	48007	P	L
		9.5 X10-3 M	CC	SPECFC CONDUCTNCE GRAPH	BRAD HUFF	48004	T	L
		5.55 X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	63013	T	L
		1.20 X10-2 M	CC	SPECFC CONDUCTNCE GRAPH	BRAD HUFF	48004	T	L
		1.55 X10-2 M	CC	SPECFC CONDUCTNCE GRAPH	BRAD HUFF	48004	T	L
	UNK	9. X10-3 M	XG	METHOD NOT CITED	KLEV RAIS	54004	T	L
	UNK	4.39 X10-3 M	BB	SURFACE TENSION LOG PLOT	WEIL STIR	63013	T	L
13 ENTRIES FOR COMPOUND								
COMPOUND NO = 201	MOL WGT -	524.8	DECYL /OXYETHYLENE/8 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS					
		6.0 X10-2 D	EC	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T	L
		1.14 X10-3 M					M	
1.50 E-2 Q	N-DECANE	4.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T	L
		7.62 X10-4 M					M	
1.32 E 0 Q	N-DECANE	5.7 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T	L
		1.08 X10-3 M					M	
2.33 E 0 Q	N-DECANE	5.4 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T	L
		1.02 X10-3 M					M	
3.16 E 0 Q	N-DECANE	5.2 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T	L
		9.90 X10-4 M					M	
3.78 E 0 Q	N-DECANE	5.1 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T	L
		9.71 X10-4 M					M	
4.93 E 0 Q	N-DECANE	4.8 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T	L
		9.14 X10-4 M					M	
1.20 E 1 Q	N-DECANE	4.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T	L
		7.62 X10-4 M					M	

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol %; T - wt % surfactant mixture; U - mol/(l or kg); W - molar; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
3.40 E 0 Q	DECANOL-1	30	5.2 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			9.90 X10-4 M					M
6.19 E 0 Q	DECANOL-1	30	4.5 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			8.57 X10-4 M					M
8.50 E 0 Q	DECANOL-1	30	4.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			7.62 X10-4 M					M
1.142E 1 Q	DECANOL-1	30	3.3 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			6.28 X10-4 M					M
1.661E 1 Q	DECANOL-1	30	2.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			3.81 X10-4 M					M
13 ENTRIES FOR COMPOUND								
COMPOUND NO = 202 MOL WGT - 657.0 DECYL /OXYETHYLENE/11 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS								
		30	9.5 X10-2 D	EC	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			1.44 X10-3 M					M
1.40 E 0 Q	N-DECANE	30	9.2 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			1.40 X10-3 M					M
2.68 E 0 Q	N-DECANE	30	9.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			1.36 X10-3 M					M
3.31 E 0 Q	N-DECANE	30	8.8 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			1.33 X10-3 M					M
5.67 E 0 Q	DECANOL-1	30	8.4 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			1.27 X10-3 M					M
1.018E 1 Q	DECANOL-1	30	7.5 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			1.14 X10-3 M					M
1.712E 1 Q	DECANOL-1	30	6.3 X10-2 D	ED	TURBIDITY PLT LITE SCATR	NAKA KURI	60006	T L
			9.58 X10-4 M					M
7 ENTRIES FOR COMPOUND								
COMPOUND NO = 203 MOL WGT - 235.8 DECYL TRIMETHYL AMMONIUM CHLORIDE								
		25	6.5 X10-2 M	XG	VISUAL SPCTR CHNGE	KLEV	53010	T L
		25	6.11 X10-2 M	BB	UNSPECIFIED CONDUCTANCE	HOYE MARM	61002	T 3
3.33 E 1 C	0041	25	1.96 X10-2 M	BB	UNSPEC SOLUBLZTN SDN 4	HOYE MARM	61002	T 3
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 204 MOL WGT - 701.0 DECYL /OXYETHYLENE/12 OXYMETHYL REDUCED POLYDISPERSION OF HEAD GROUPS								
		09.7	1.70 X10-1 D	EC	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			2.425X10-3 M					M
		29.0	1.10 X10-1 D	EC	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			1.569X10-3 M					M
		30	1.05 X10-1 D	EC	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			1.497X10-3 M					M
		45	8.2 X10-2 D	EC	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			1.16 X10-3 M					M
		50.7	7.8 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			1.11 X10-3 M					M
		50	7.8 X10-2 D	EC	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			1.11 X10-3 M					M
		58.5	7.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			9.98 X10-4 M					M
		69.7	6.2 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			8.84 X10-4 M					M
		73.4	6.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			8.55 X10-4 M					M
		75.0	6.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			8.55 X10-4 M					M
1.86 E 0 Q	N-DECANE	09.6	1.65 X10-1 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			2.353X10-3 M					M
2.6 E 0 Q	N-DECANE	10.0	1.63 X10-1 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			2.325X10-3 M					M
1.86 E 0 Q	N-DECANE	30.0	1.05 X10-1 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			1.497X10-3 M					M
4.4 E 0 Q	N-DECANE	30.0	1.02 X10-1 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			1.455X10-3 M					M
1.86 E 0 Q	N-DECANE	50.0	7.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			1.11 X10-3 M					M
8.7 E 0 Q	N-DECANE	50.0	7.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			9.98 X10-4 M					M
1.86 E 0 Q	N-DECANE	60.0	7.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L
			9.98 X10-4 M					M

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
1.35 E 1 Q N-DECANE	60.0	6.8 X10 ⁻² D 9.70 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
1.86 E 0 Q N-DECANE	66.6	6.2 X10 ⁻² D 8.84 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
1.86 E 0 Q N-DECANE	69.0	6.2 X10 ⁻² D 8.84 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
9.17 F 0 Q DECANOL-1	10.0	1.45 X10 ⁻¹ D 2.068X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
9.17 0 DECANOL-1	29.9	8.8 X10 ⁻² D 1.25 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
1.87 E 0 Q DECANOL-1	30	1.05 X10 ⁻¹ D 1.497X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
4.56 E 0 Q DECANOL-1	30	9.9 X10 ⁻² D 1.41 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
7.75 E 0 Q DECANOL-1	30	9.2 X10 ⁻² D 1.31 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
9.17 E 0 Q DECANOL-1	30	8.8 X10 ⁻² D 1.25 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
1.11 E 1 Q DECANOL-1	30	8.5 X10 ⁻² D 1.21 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
1.91 E 1 Q DECANOL-1	30	7.0 X10 ⁻² D 9.98 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
9.17 E 0 Q DECANOL-1	43.4	7.6 X10 ⁻² D 1.08 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
5.37 E 0 Q DECANOL-1	45	7.8 X10 ⁻² D 1.11 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
9.17 E 0 Q DECANOL-1	45	7.5 X10 ⁻² D 1.06 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
1.07 E 1 Q DECANOL-1	45	7.4 X10 ⁻² D 1.05 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
1.28 E 1 Q DECANOL-1	45	7.3 X10 ⁻² D 1.04 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
1.73 E 1 Q DECANOL-1	45	6.9 X10 ⁻² D 9.84 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
9.17 E 0 Q DECANOL-1	49.7	7.0 X10 ⁻² D 9.98 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
1.86 E 0 Q DECANOL-1	50	7.8 X10 ⁻² D 1.11 X10 ⁻³ R	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
2.23 E 0 Q DECANOL-1	50	7.6 X10 ⁻² D 1.08 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
3.53 E 0 Q DECANOL-1	50	7.5 X10 ⁻² D 1.06 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
5.58 E 0 Q DECANOL-1	50	7.3 X10 ⁻² D 1.04 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
7.52 E 0 Q DECANOL-1	50	7.1 X10 ⁻² D 1.01 X10 ⁻³ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
8.7 E 0 Q DECANOL-1	50	7.0 X10 ⁻² D 9.98 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
9.17 E 0 Q DECANOL-1	55.4	6.6 X10 ⁻² D 9.41 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
9.17 E 0 Q DECANOL-1	61.4	6.2 X10 ⁻² D 8.84 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62009	T L M
43 ENTRIES FOR COMPOUND							
COMPOUND NO = 205 MOL WGT = 729.1 DODECYL /OXYETHYLENE/12 OXYMETHYL							
REDUCED POLYDISPERSION OF HEAD GROUPS							
	20	4. X10 ⁻² D 5.4 X10 ⁻⁴ M	EE	TURBIDITY PLT LITE SCATR	KURI	62011	T L M
	40	2. X10 ⁻² D 2.7 X10 ⁻⁴ M	EE	TURBIDITY PLT LITE SCATR	KURI	62011	T L M
	60	1.5 X10 ⁻² D 2.05 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L M
	70	1.2 X10 ⁻² D 1.64 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L M
	76	1.2 X10 ⁻² D 1.64 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L M
5. E-1 M CA CL2	30	2.0 X10 ⁻² D 2.74 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L M
1. E 0 M CA CL2	30	1.0 X10 ⁻² D 1.37 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L M
5. E-1 M CA CL2	50	1.5 X10 ⁻² D 2.05 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L M
1. E 0 M CA CL2	50	8. X10 ⁻³ D 1.0 X10 ⁻⁴ M	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L M

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
1.	E O M CA CL2	60	5. X10-3 D	EE	TURBIDITY PLT LITE SCATR	KURI	62011	T L
			6.8 X10-5 M					M
5.	E-1 M CA CL2	64	1.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L
			1.37 X10-4 M					M
2.	E-1 M NA CL	30	2.3 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
			3.15 X10-4 M					M
2.	E-1 M NA CL	30	2.3 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L
			3.15 X10-4 M					M
1.	E O M NA CL	30	2.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L
			2.74 X10-4 M					M
2.	E-1 M NA CL	50	1.6 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
			2.19 X10-4 M					M
2.	E-1 M NA CL	50	1.6 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L
			2.19 X10-4 M					M
1.	E O M NA CL	50	1.5 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L
			2.05 X10-4 M					M
1.	E O M NA CL	60	1.2 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L
			1.64 X10-4 M					M
2.	E-1 M NA CL	70	1.2 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
			1.64 X10-4 M					M
2.	E-1 M NA CL	70	1.2 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI	62011	T L
			1.64 X10-4 M					M
2.	E-1 M NA CL	30	2.3 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	5. E O T 0001		3.15 X10-4 M					M
2.	E-1 M NA CL	30	2.5 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	2.0 E 1 T 0001		3.42 X10-4 M					M
2.	E-1 M NA CL	30	2.8 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	4.0 E 1 T 0001		3.84 X10-4 M					M
2.	E-1 M NA CL	30	2.8 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	6.0 E 1 T 0001		3.84 X10-4 M					M
2.	E-1 M NA CL	30	2.9 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	8.0 E 1 T 0001		3.97 X10-4 M					M
2.	E-1 M NA CL	50	2.2 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	5. E O T 0001		3.01 X10-4 M					M
2.	E-1 M NA CL	50	2.5 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	2.0 E 1 T 0001		3.42 X10-4 M					M
2.	E-1 M NA CL	50	3.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	4.0 E 1 T 0001		4.11 X10-4 M					M
2.	E-1 M NA CL	50	3.3 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	6.0 E 1 T 0001		4.52 X10-4 M					M
2.	E-1 M NA CL	50	3.6 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	8.0 E 1 T 0001		4.93 X10-4 M					M
2.	E-1 M NA CL	70	2.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	5. E O T 0001		2.74 X10-4 M					M
2.	E-1 M NA CL	70	2.6 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	2.0 E 1 T 0001		3.56 X10-4 M					M
2.	E-1 M NA CL	70	3.4 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	4.0 E 1 T 0001		4.66 X10-4 M					M
2.	E-1 M NA CL	70	4.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	6.0 E 1 T 0001		5.48 X10-4 M					M
2.	E-1 M NA CL	70	5.0 X10-2 D	ED	TURBIDITY PLT LITE SCATR	KURI NAKA	62010	T L
	8.0 E 1 T 0001		6.85 X10-4 M					M

35 ENTRIES FOR COMPOUND

COMPOUND NO = 206 MOL WGT = 624.9 TRITON X-100 (P-T-OCTYL BENZENE/OXYETHYLENE/9 NATURAL DISTRIBUTION OF HEAD GROUPS

		0	9. X10-4 W	HD	FREEZING POINT	GONI MCBA	47007	T L
		26	1.5 X10-2 D	HD	SURFACE TENSION LOG PLOT	MANK	64010	T L
		30	5. X10-2 D	HE	TURBIDITY PLT LITE SCATR	KURI	62011	T L
		UNK	1.6 X10-2 D	HD	FOTOMTR SPCTR CHNG I2	ROSS OLIV	59020	T L
5.	E-1 M CA CL2	30	4. X10-2 D	HE	TURBIDITY PLT LITE SCATR	KURI	62011	T L
1.0	E O M H N03	25	1.8 X10-3 D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T L
1.0	E O M H N03	25	2.2 X10-3 D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T L
7.	E-1 M H CL04	25	1.6 X10-3 D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T L
7.	E-1 M H CL04	25	3.7 X10-3 D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T L
7.	E-1 M H CL04	25	2.0 X10-3 D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T L
1.0	E O M K CL	25	2.2 X10-3 D	HE	SURFACE TNSN LINEAR PLOT	COLI	50012	T L
1.0	E O M K CL	25	1.5 X10-3 D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T L
1.0	E O M K N03	25	2.5 X10-3 D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T L
1.0	E O M K N03	25	2.2 X10-3 D	HE	SURFACE TNSN LINEAR PLOT	COLI	50012	T L
1.0	E O M K N03	25	2.0 X10-3 D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T L
1.0	E O M K OH	25	2.0 X10-3 D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T L

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol %; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality; T - wt % surfactant mixture; U - mol/(l or kg); W - molal; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives			Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
1.0	E O M	K CNS	25	1.8 X10 ⁻³ D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
5.	E-1 M	NA CL 0139	30	4. X10 ⁻² D	HE	TURBIDITY PLT LITE SCATR SEE CMPD NMBR IN ADDITV	KURI	62011	T	L
2.	E-1	IONIC STRENGTH	25	9. X10 ⁻³ D	HG	REACTN RATE SULUBILIZATE	TONG REEV	64010 65030	T	L
	1.01 E 1	PH OF SOLUTION								
2.	E-1	IONIC STRENGTH	UNK	8. X10 ⁻³ D	HG	FOTOMTR SPCTR CHNGE RHD6	TONG REEV	65030	T	L
	1.01 E 1	PH OF SOLUTION								
5.0	E O M	NH3	25	2.0 X10 ⁻³ D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
5.0	E O M	NH3	25	1.8 X10 ⁻³ D	HG	POLAROGRAPHIC MAXIMUM	COLI	50012	T	L
	1. E-1 M	NH4 CL								
	1. E-1 M	NH4 CL								
23 ENTRIES FOR COMPOUND										
COMPOUND NO = 207 MOL WGT - HOMOGENEOUS HEAD GROUP			250.4	P-T-OCTYL BENZENE /OXYETHYLENE/1 ALCOHOL						
			15	4.3 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			25	4.85 X10 ⁻⁵ M	BE	SURFACE TENSION LOG PLOT	CR00 FORD	63017	GL	L
			25	4.95 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			35	5.6 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			45	6.3 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			55	7.65 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			65	9.65 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			75	1.29 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			85	1.95 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
9 ENTRIES FOR COMPOUND										
COMPOUND NO = 208 MOL WGT - HOMOGENEOUS HEAD GROUP			294.4	P-T-OCTYL BENZENE /OXYETHYLENE/2 ALCOHOL						
			15	7.30 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			25	1.32 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CR00 FORD	63017	GL	3
			25			QUESTIONABLE CRITERION	CR00 FORD	63017		R
			25	7.65 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			35	7.90 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			45	8.65 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			55	9.65 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			65	1.11 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			75	1.32 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			85	1.62 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
10 ENTRIES FOR COMPOUND										
COMPOUND NO = 209 MOL WGT - HOMOGENEOUS HEAD GROUP			338.5	P-T-OCTYL BENZENE /OXYETHYLENE/3 ALCOHOL						
			15	1.02 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			25	9.7 X10 ⁻⁵ M	BC	SURFACE TENSION LOG PLOT	CR00 FORD	63017	GL	3
			25			QUESTIONABLE CRITERION	CR00 FORD	63017		R
			25	1.03 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			35	1.07 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			45	1.13 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			55	1.23 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			65	1.39 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			75	1.68 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			85	2.12 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
10 ENTRIES FOR COMPOUND										
COMPOUND NO = 210 MOL WGT - HOMOGENEOUS HEAD GROUP			382.5	P-T-OCTYL BENZENE /OXYETHYLENE/4 ALCOHOL						
			15	1.34 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			25	1.25 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CR00 FORD	63017	GL	3
			25			QUESTIONABLE CRITERION	CR00 FORD	63017		R
			25	1.29 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			35	1.30 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			45	1.41 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			55	1.59 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			65	1.72 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			75	1.91 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			85	2.13 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CR00 FORD	64014	GL	L
			25			QUESTIONABLE CRITERION	CR00 FORD	63017		R
	3.33 E 1 C	0216	25	1.47 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CR00 FORD	63017	GL	L
	5.00 E 1 C	0216	25	1.75 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CR00 FORD	63017	GL	L
	6.67 E 1 C	0216	25	2.17 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CR00 FORD	63017	GL	L
14 ENTRIES FOR COMPOUND										

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; D - wt/vol %; E - saturation; H - wt % solvent; I - mol % surfactant; K - normality; T - wt % surfactant mixture; U - mol/l (or kg); W - molar; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source Evaluation
COMPOUND NO = 211 MOL WGT - HOMOGENEOUS HEAD GROUP	426.6	P-T-OCTYL BENZENE /OXYETHYLENE/5		ALCOHOL			
	15	1.81 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	25	1.54 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	L 3
	25			QUESTIONABLE CRITERION	CROO FORD	63017	R
	25	1.72 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	35	1.64 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	45	1.64 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	55	1.72 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	65	1.90 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	75	2.2 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	85	2.35 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
10 ENTRIES FOR COMPOUND							
COMPOUND NO = 212 MOL WGT - HOMOGENEOUS HEAD GROUP	470.7	P-T-OCTYL BENZENE /OXYETHYLENE/6		ALCOHOL			
	15	2.70 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	25	2.05 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	L 3
	5			QUESTIONABLE CRITERION	CROO FORD	63017	R
	5	2.5 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	35	2.37 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	45	2.28 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	640	L L
	55	2.30 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	65	2.55 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	75	2.87 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	85	3.5 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
10 ENTRIES FOR COMPOUND							
COMPOUND NO = 213 MOL WGT - HOMOGENEOUS HEAD GROUP	514.7	P-T-OCTYL BENZENE /OXYETHYLENE/7		ALCOHOL			
	15	2.91 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	25	2.46 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	L 3
	25			QUESTIONABLE CRITERION	CROO FORD	63017	R
	25	2.68 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	35	2.44 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	45	2.43 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	55	2.41 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	65	2.50 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	75	2.68 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	85	2.90 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
10 ENTRIES FOR COMPOUND							
COMPOUND NO = 214 MOL WGT - HOMOGENEOUS HEAD GROUP	558.8	P-T-OCTYL BENZENE /OXYETHYLENE/8		ALCOHOL			
	15	2.94 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	25	2.80 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL 3
	25			QUESTIONABLE CRITERION	CROO FORD	63017	R
	25	2.83 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	35	2.58 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	45	2.50 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	55	2.46 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	65	2.55 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	75	2.74 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	85	2.98 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
10 ENTRIES FOR COMPOUND							
COMPOUND NO = 215 MOL WGT - HOMOGENEOUS HEAD GROUP	602.8	P-T-OCTYL BENZENE /OXYETHYLENE/9		ALCOHOL			
	15	3.22 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	25	3.35 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL 3
	25			QUESTIONABLE CRITERION	CROO FORD	63017	R
	25	3.04 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	35	2.75 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	45	2.62 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	55	2.70 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	65	2.80 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	75	2.91 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
	85	3.18 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL L
10 ENTRIES FOR COMPOUND							

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/l (or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 216 MOL WGT - 646.9 P-T-OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL								
HOMOGENEOUS HEAD GROUP								
	15	3.30 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL	L
	25	3.23 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL	L
	25	3.35 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CROO FORD	63017	L	3
	5			QUESTIONABLE CRITERION	CROO FORD	63017		R
	35	3.03 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL	L
	45	2.80 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL	L
	55	2.90 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL	L
	65	3.00 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL	L
	75	3.12 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL	L
	85	3.38 X10 ⁻⁴ M	BD	SURFACE TENSION LOG PLOT	CROO FORD	64014	GL	L
0210	25			SEE CMPD NMBR IN ADDITV	CROO FORD	63017		X
E 0 0210	25			QUESTIONABLE CRITERION	CROO FORD	63017		R
12 ENTRIES FOR COMPOUND								
COMPOUND NO = 217 MOL WGT - 250.4 P-T-OCTYL BENZENE /OXYETHYLENE/1 ALCOHOL								
NATURAL DISTRIBUTION OF HEAD GROUPS								
	25	4.85 X10 ⁻⁵ M	EE	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 218 MOL WGT - 294.4 P-T-OCTYL BENZENE /OXYETHYLENE/2 ALCOHOL								
NATURAL DISTRIBUTION OF HEAD GROUPS								
	25	6.8 X10 ⁻⁵ M	EC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	L
	25			QUESTIONABLE CRITERION	CROO FORD	63017		R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 219 MOL WGT - 338.5 P-T-OCTYL BENZENE /OXYETHYLENE/3 ALCOHOL								
NATURAL DISTRIBUTION OF HEAD GROUPS								
	25	1.14 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	L
	25			QUESTIONABLE CRITERION	CROO FORD	63017		R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 220 MOL WGT - 382.5 P-T-OCTYL BENZENE /OXYETHYLENE/4 ALCOHOL								
NATURAL DISTRIBUTION OF HEAD GROUPS								
	25	1.05 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	L
	25			QUESTIONABLE CRITERION	CROO FORD	63017		R
E 0 0226	25			QUESTIONABLE CRITERION	CROO FORD	63017		R
3.33 E 1 C 0226	25	1.28 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	CROO FORD	63017	L	L
5100 E 1 C 0226	25	1.53 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	L
6.67 E 1 C 0226	25	2.04 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	L
6 ENTRIES FOR COMPOUND								
COMPOUND NO = 221 MOL WGT - 426.6 P-T-OCTYL BENZENE /OXYETHYLENE/5 ALCOHOL								
NATURAL DISTRIBUTION OF HEAD GROUPS								
	25	1.17 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	L
	25			QUESTIONABLE CRITERION	CROO FORD	63017		R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 222 MOL WGT - 470.7 P-T-OCTYL BENZENE /OXYETHYLENE/6 ALCOHOL								
NATURAL DISTRIBUTION OF HEAD GROUPS								
	25	1.80 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	CROO FORD	63017	L	L
	25			QUESTIONABLE CRITERION	CROO FORD	63017		R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 223 MOL WGT - 514.7 P-T-OCTYL BENZENE /OXYETHYLENE/7 ALCOHOL								
NATURAL DISTRIBUTION OF HEAD GROUPS								
	25	1.84 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	L
	25			QUESTIONABLE CRITERION	CROO FORD	63017		R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 224 MOL WGT - 558.8 P-T-OCTYL BENZENE /OXYETHYLENE/8 ALCOHOL								
NATURAL DISTRIBUTION OF HEAD GROUPS								
	25	2.47 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	CROO FORD	63017	GL	L
	25			QUESTIONABLE CRITERION	CROO FORD	63017		R
2 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; O—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 225 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	602.8 25 5	P-T-OCTYL BENZENE /OXYETHYLENE/9 2.90 X10-4 M	EC	SURFACE TENSION MINIMUM QUESTIONABLE CRITERION	CROO FORD CROO FORD	63017 63017	L R	L R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 226 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	646.9 25 25 25 25	P-T-OCTYL BENZENE /OXYETHYLENE/10 3.20 X10-4 M	EC	SURFACE TENSION MINIMUM QUESTIONABLE CRITERION SEE CMPD NMBR IN ADDITV QUESTIONABLE CRITERION	CROO FORD CROO FORD CROO FORD CROO FORD	63017 63017 63017 63017	GL R X R	L R X R
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 227 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	911.3 25 25	P-T-OCTYL BENZENE /OXYETHYLENE/16 4.3 X10-4 M	EC	SURFACE TENSION MINIMUM QUESTIONABLE CRITERION	CROO FORD CROO FORD	63017 63017	GL R	L R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 228 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	1,968.7 25 25	P-T-OCTYL BENZENE /OXYETHYLENE/40 8.1 X10-4 M	EC	SURFACE TENSION MINIMUM QUESTIONABLE CRITERION	CROO FORD CROO FORD	63017 63017	GL R	L R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 229 MOL WGT -	286.3 50	SODIUM TRIDECANE 1-SULFONATE 3.52 X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	63013	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 230 MOL WGT -	314.4 50	SODIUM PENTADECANE 1-SULFONATE 6.6 X10-4 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	63013	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 231 MOL WGT -	342.5 50	SODIUM HEPTADECANE 1-SULFONATE 2.1 X10-4 M	BG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	63013	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 232 MOL WGT -	334.5 50 UNK	OCTADECANE 1-SULFONIC ACID 1.0 X10-4 M 1.0 X10-4 M	BG BD	VISUAL SPCTR CHNGE PNCN SURFACE TENSION LOG PLOT	WEIL STIR WEIL STIR	63013 63013	T T	L L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 233 MOL WGT -	352.3 25	DISODIUM ALPHA SULFO MYRISTATE		QUESTIONABLE CRITERION	WEIL STIR	63013		R
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 234 MOL WGT -	380.4 25	DISODIUM ALPHA SULFO PALMITATE		QUESTIONABLE CRITERION	WEIL STIR	63013		R
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 235 MOL WGT -	302.3 25	SODIUM ALPHA SULFO LAURIC ACID		QUESTIONABLE CRITERION	WEIL STIR	63013		R
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 236 MOL WGT -	330.4 25	SODIUM ALPHA SULFO MYRISTIC ACID		QUESTIONABLE CRITERION	WEIL STIR	63013		R
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 237 MOL WGT -	358.4 25	SODIUM ALPHA SULFO PALMITIC ACID		QUESTIONABLE CRITERION	WEIL STIR	63013		R
1 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 238 MOL WGT - 1 ENTRIES FOR COMPOUND	288.3 25	SODIUM DODECANE 1-HYDROXY 2-SULFONATE		QUESTIONABLE CRITERION	WEIL STIR	63013		R
COMPOUND NO = 239 MOL WGT - 1 ENTRIES FOR COMPOUND	316.4 25	SODIUM TETRADECANE 1-HYDROXY 2-SULFONATE		QUESTIONABLE CRITERION	WEIL STIR	63013		R
COMPOUND NO = 240 MOL WGT - 1 ENTRIES FOR COMPOUND	344.4 25	SODIUM HEXADECANE 1-HYDROXY 2-SULFONATE		QUESTIONABLE CRITERION	WEIL STIR	63013		R
COMPOUND NO = 241 MOL WGT - 1 ENTRIES FOR COMPOUND	372.5 25	SODIUM OCTADECANE 1-HYDROXY 2-SULFONATE		QUESTIONABLE CRITERION	WEIL STIR	63013		R
COMPOUND NO = 242 MOL WGT - 2 ENTRIES FOR COMPOUND	264.4 50 UNK	TRIDECANE 1-SULFONIC ACID	X10-3 M BG X10-3 M BB	VISUAL SPCTR CHNGE PNCN SURFACE TENSION LOG PLOT	WEIL STIR WEIL STIR	63013 63013	T L T L	
COMPOUND NO = 243 MOL WGT - 4 ENTRIES FOR COMPOUND	278.4 25 25 50 UNK	TETRADECANE 1-SULFONIC ACID	X10-3 W CF X10-3 W CA X10-3 M BG X10-3 M BB	EQUIV CONDUCTNCE GRAPH SPECFC CONDUCTNCE GRAPH VISUAL SPCTR CHNGE PNCN SURFACE TENSION LOG PLOT	MCBA DYE MCBA DYE WEIL STIR WEIL STIR	39011 39011 63013 63013	T L P L T L T L	
COMPOUND NO = 244 MOL WGT - 2 ENTRIES FOR COMPOUND	292.4 50 UNK	PENTADECANE 1-SULFONIC ACID	X10-4 M BG X10-4 M DC	VISUAL SPCTR CHNGE PNCN SURFACE TENSION LOG PLOT	WEIL STIR WEIL STIR	63013 63013	T L T L	
COMPOUND NO = 245 MOL WGT - 8.4 E 2 I PENTANOL-1 5.63 E 1 H GLYCEROL 9.58 E 1 I H CL 8 ENTRIES FOR COMPOUND	306.5 40 50 60 80 UNK 60 60 60	HEXADECANE 1-SULFONIC ACID	X10-4 M DB X10-4 M BG X10-4 M DA X10-3 M DA X10-4 M BC X10-4 M DB X10-3 M DB X10-4 M DB	SPECFC CONDUCTNCE GRAPH VISUAL SPCTR CHNGE PNCN SPECFC CONDUCTNCE GRAPH SPECFC CONDUCTNCE GRAPH SURFACE TENSION LOG PLOT SPECFC CONDUCTNCE GRAPH SPECFC CONDUCTNCE GRAPH SPECFC CONDUCTNCE GRAPH	HART WEIL STIR HART HART WEIL STIR HART HART HART	36002 63013 36002 36002 63013 36002 36002 36002	P L T L P L P L T L P L P L P L	
COMPOUND NO = 246 MOL WGT - 2 ENTRIES FOR COMPOUND	320.5 50 UNK	HEPTADECANE 1-SULFONIC ACID	X10-4 M BG X10-4 M BD	VISUAL SPCTR CHNGE PNCN SURFACE TENSION LOG PLOT	WEIL STIR WEIL STIR	63013 63013	T L T L	
COMPOUND NO = 247 MOL WGT - 2 ENTRIES FOR COMPOUND	266.3 50 UNK	DODECANE 1-HYDROXY 2-SULFONIC ACID	X10-2 M BG X10-2 M BB	VISUAL SPCTR CHNGE PNCN SURFACE TENSION LOG PLOT	WEIL STIR WEIL STIR	63013 63013	T L T L	
COMPOUND NO = 248 MOL WGT - 2 ENTRIES FOR COMPOUND	294.4 50 UNK	TETRADECANE 1-HYDROXY 2-SULFONIC ACID	X10-3 M BG X10-3 M BB	VISUAL SPCTR CHNGE PNCN SURFACE TENSION LOG PLOT	WEIL STIR WEIL STIR	63013 63013	T L T L	
COMPOUND NO = 249 MOL WGT - 2 ENTRIES FOR COMPOUND	322.5 50 UNK	HEXADECANE 1-HYDROXY 2-SULFONIC ACID	X10-4 M BG X10-4 M BB	VISUAL SPCTR CHNGE PNCN SURFACE TENSION LOG PLOT	WEIL STIR WEIL STIR	63013 63013	T L T L	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 250 MOL WGT -	350.5	OCTADECANE	1-HYDROXY 2-SULFONIC ACID					
	50	2.1 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	63013	T	L
	UNK	2.2 X10-4 M	CC	SURFACE TENSION LOG PLOT	WEIL STIR	63013	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 251 MOL WGT -	173.3	OCTYL DIMETHYL AMINE OXIDE						
	25	1.6 X10-2 M	BD	HEAT OF DILUTION	BENJ	64016	L	L
	27	1.5 X10-1 M	BC	TURBIDITY PLT LITE SCATR	HERR	62005	G	L
	30	2.4 X10 0 P	BC	DENSITY	BENJ	66040	T	L
		1.38 X10-1 S						M
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 252 MOL WGT -	201.3	DECYL DIMETHYL AMINE OXIDE						
	25	1.9 X10-2 M	BD	HEAT OF DILUTION	BENJ	64016	L	L
	27	1.5 X10-2 M	BC	TURBIDITY PLT LITE SCATR	HERR	62005	G	L
	30	3.3 X10-1 P	BC	DENSITY	BENJ	66040	T	L
		1.63 X10-2 S						M
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 253 MOL WGT -	257.5	TETRADECYL DIMETHYL AMINE OXIDE						
	27	2.7 X10-4 M	BC	TURBIDITY PLT LITE SCATR	HERR	62005	G	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 254 MOL WGT -	187.3	NONYL DIMETHYL AMINE OXIDE						
	25	5.4 X10-2 M	BC	HEAT OF DILUTION	BENJ	64016	L	3
	30	1.1 X10 0 P	BD	DENSITY	BENJ	66040	T	L
		5.87 X10-2 S						M
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 255 MOL WGT -	354.6	POTASSIUM 9,10 DIHYDROXY STEARATE						
	55	1.1 X10-2 M	XC	REFRACTIVE INDEX	KLEV	53010	T	L
	55	8.0 X10-3 M	XB	REFRACTIVE INDEX	KLEV	53010	T	L
1. E-3 M K OH	60	7.5 X10-3 M	BC	EQUIV CONDUCTNCE GRAPH	GREG TART	48012	T	3
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 256 MOL WGT -	322.6	POTASSIUM STEARATE						
	55	4.5 X10-4 M	XE	REFRACTIVE INDEX	KLEV	53010	T	L
1. E-3 M K OH	60	5. X10-4 M	BE	EQUIV CONDUCTNCE GRAPH	GREG TART	48012	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 257 MOL WGT -	332.3	SODIUM DI-N-BUTYL SULFOSUCCINATE						
	25	2.0 X10-1 M	BC	SURFACE TENSION LOG PLOT	WILL DIXO	57009	TL	L
	29.9	2.1 X10-1 M	BE	SPECFC CONDUCTNCE GRAPH	MILL DIXO	58001	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 258 MOL WGT -	360.3	SODIUM DI-N-AMYL SULFOSUCCINATE						
	48016			VALUES FRM REF IN CMC	KOLT STRI	49005		R
	25	5.3 X10-2 M	BC	SURFACE TENSION LOG PLOT	WILL DIXO	57009	AL	3
	29.9	7.3 X10-2 M	BE	SPECFC CONDUCTNCE GRAPH	MILL DIXO	58001	T	L
	30	9.5 X10-2 M	HD	FOTOMTR SOLUBLZTN PDMA8	KOLT STRI	48016	T	L
	50	9.5 X10-2 M	HD	FOTOMTR SOLUBLZTN PDMA8	KOLT STRI	48016	T	L
5. E-1 N NA CL	50	4.5 X10-2 M	HE	FOTOMTR SOLUBLZTN PDMA8	KOLT STRI	49005	T	L
1. E 0 N NA CL	50	2.5 X10-2 M	HE	FOTOMTR SOLUBLZTN PDMA8	KOLT STRI	49005	T	L
7 ENTRIES FOR COMPOUND								
COMPOUND NO = 259 MOL WGT -	388.4	SODIUM DI-N-HEXYL SULFOSUCCINATE						
	25.0	1.0 X10 0 P	HD	DENSITY	VETT	47011	T	L
	25.0	1.1 X10 0 P	HD	VISCOSITY	VETT	47011	T	L
	25	1.24 X10-2 M	BC	SURFACE TENSION LOG PLOT	WILL DIXO	57009	TL	3
	25	2.7 X10-2 M	XG	VISCOSITY MINIMUM	SATA TYUZ	53006	T	L
	29.9	1.28 X10-2 M	BE	SPECFC CONDUCTNCE GRAPH	MILL DIXO	58001	T	L
	29.9	1.19 X10 2 M	BE	EQUIV CONDUCTNCE GRAPH	MILL DIXO	58001	T	L
	UNK	3.8 X10-2 M	BG	METHOD NOT CITED	KLEV CARR	56001	T	L
7 ENTRIES FOR COMPOUND								
COMPOUND NO = 260 MOL WGT -	444.5	SODIUM DI-N-OCTYL SULFOSUCCINATE						
	20	4.5 X10-3 M	HG	FOTOMTR SPCTR CHNGE PNCN	TAUB KONS	60033	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
	20	2.7 X10 ⁻³ M	HG	FOTOMTR SPCTR CHNGE PNCN	TAUB KONS	60033	T	L
	20	5.4 X10 ⁻³ M	HG	VISUAL SPCTR CHNGE PNCN	TAUB KONS	60033	T	L
	20	2.6 X10 ⁻³ M	HG	VISUAL SPCTR CHNGE PNCN	TAUB KONS	60033	T	L
	20	2.6 X10 ⁻³ M	HG	VISUAL SPCTR CHNGE RHD6	TAUB KONS	60033	T	L
	25	6.8 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	WILL DIXO	57009	TL	3
	25	9. X10 ⁻⁴ N	HE	UNSPECIFIED CONDUCTANCE	HAFF PICC	42003	T	L
	29.9	6.4 X10 ⁻⁴ M	BE	EQUIV CONDUCTNCE GRAPH	MILL DIXO	58001	T	L
	40	5.1 X10 ⁻³ M	HC	UNSPECIFIED CONDUCTANCE	TAUB KONS	60033	T	L
	UNK	4. X10 ⁻² M	HE	ELECTROMOTIVE FORCE	STAN RADL	60021	T	L
10 ENTRIES FOR COMPOUND								
COMPOUND NO = 261	MOL WGT -	332.3	SODIUM DI-ISOBUTYL SULFOSUCCINATE					
		25 2.0 X10 ⁻¹ M	BC	SURFACE TENSION LOG PLOT	WILL DIXO	57009	TL	L
		25		QUESTIONABLE CRITERION	HAFF PICC	42003		R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 262	MOL WGT -	444.5	SODIUM DI-2-ETHYL-HEXYL SULFOSUCCINATE					
		25 2.5 X10 ⁻³ M	BC	SURFACE TENSION LOG PLOT	WILL DIXO	57009	TL	3
		25 5.5 X10 ⁻³ N	HE	UNSPECIFIED CONDUCTANCE	HAFF PICC	42003	T	L
		29.9 5.6 X10 ⁻³ M	BE	EQUIV CONDUCTNCE GRAPH	MILL DIXO	58001	T	L
		29.9 6.1 X10 ⁻³ M	BE	SPECFC CONDUCTNCE GRAPH	MILL DIXO	58001	T	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 263	MOL WGT -	304.4	SODIUM OLEATE /CIS-9-OCTADECENOATE/					
		20		QUESTIONABLE CRITERION	HESS PHIL	39009		R
		24.7 7. X10 ⁻² P	HD	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
		25 7.2 X10 ⁻⁴ M	HG	FOTOMTR SPCTR CHNGE PNCN	GINN HARR	58008	T	L
		25 2.64 X10 ⁻³ M	HC	SPECFC CONDUCTNCE GRAPH	GINN HARR	58008	T	L
		25 2.9 X10 ⁻² D	HE	METHOD NOT CITED	GINN HARR	61014	T	L
		25 2.10 X10 ⁻³ M	DC	SPECFC CONDUCTNCE GRAPH	FLOC GRAH	53004	P	L
		40 2.15 X10 ⁻³ M	DC	SPECFC CONDUCTNCE GRAPH	FLOC GRAH	53004	P	L
		40 3.0 X10 ⁻³ M	DD	SPECFC CONDUCTNCE GRAPH	TAMA SHIR	58007	P	L
		50 3.5 X10 ⁻³ M	HC	SPECFC CONDUCTNCE GRAPH	MARO ELDE	54006	T	L
		60 3.2 X10 ⁻³ M	DD	SPECFC CONDUCTNCE GRAPH	TAMA SHIR	58007	P	L
		60		QUESTIONABLE CRITERION	TAMA NAKA	53001		R
		75 3.5 X10 ⁻² D	HE	METHOD NOT CITED	GINN HARR	61014	T	L
		UNK 1.4 X10 ⁻³ M	DD	WIEN EFFECT	EXNE	48018	T	L
		UNK 6.1 X10 ⁻² D	HB	SPECFC CONDUCTNCE GRAPH	HARR	58004	K	L
		UNK 1. X10 ⁻³ M	DG	FOTOMTR SPCTR CHNGE PNCN	TAMA SHIR	58007	T	L
		UNK 2.7 X10 ⁻³ M	DD	EQUIV CONDUCTNCE GRAPH	TAMA SHIR	58007	T	L
5. E-2 P	DECANOL-1	24.7 3. X10 ⁻² P	HE	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
2. E O M	ETHANOL	40 1.7 X10 ⁻³ M	DD	AVER SP EQUIV COND	TAMA SHIR	58007	P	L
7. E-2 P	LAURYL ALCOHOL	24.7 4. X10 ⁻² P	HE	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
4. E O I	NA OH	25 1.5 X10 ⁻³ W	DG	VISUAL SPCTR CHNGE RHD6	FINE MCBA	48011	T	L
6. E O I	NA OH	25 1.5 X10 ⁻³ M	CC	EQUIV CONDUCTNCE GRAPH	FLOC GRAH	53004	T	L
1.67 E I I	NA OH	25 1.2 X10 ⁻³ M	CD	EQUIV CONDUCTNCE GRAPH	FLOC GRAH	53004	T	L
3.4 E O I	OLEIC ACID	25 2.0 X10 ⁻³ M	DD	EQUIV CONDUCTNCE GRAPH	FLOC GRAH	53004	K	L
1.1 E 1	PH OF SOLUTION	5 0. X10 ⁻⁴ M	BD	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L
1.1 E 1	PH OF SOLUTION	25 1.0 X10 ⁻³ M	BD	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L
1.1 E 1	PH OF SOLUTION	40 1.6 X10 ⁻³ M	BD	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L
1.1 E 1	PH OF SOLUTION	60 2.3 X10 ⁻³ M	BD	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L
1.1 E 1	PH OF SOLUTION	90 3.3 X10 ⁻³ M	BD	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L
1.0 E-1 P	TRIBUTYL PHOSPHATE	24.7 4. X10 ⁻² P	HE	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
2.0 E-1 P	TRIBUTYL PHOSPHATE	24.7 5. X10 ⁻² P	HD	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
30 ENTRIES FOR COMPOUND								
COMPOUND NO = 264	MOL WGT -	304.4	SODIUM ELAIDATE /TRANS-9-OCTADECENOATE/					
		40 1.4 X10 ⁻³ M	DD	AVER SP EQUIV COND	TAMA SHIR	58007	P	L
		40 2.5 X10 ⁻³ M	DD	SPECFC CONDUCTNCE GRAPH	TAMA SHIR	58007	P	L
		60 2.6 X10 ⁻³ M	DD	SPECFC CONDUCTNCE GRAPH	TAMA SHIR	58007	P	L
		60		QUESTIONABLE CRITERION	TAMA NAKA	53001		R
		UNK 1. X10 ⁻³ M	DG	FOTOMTR SPCTR CHNGE PNCN	TAMA SHIR	58007	T	L
		UNK 2.5 X10 ⁻³ M	DD	EQUIV CONDUCTNCE GRAPH	TAMA SHIR	58007	T	L
6 ENTRIES FOR COMPOUND								
COMPOUND NO = 265	MOL WGT -	320.0	HEXADECYL TRIMETHYL AMMONIUM CHLORIDE					
		30 1.3 X10 ⁻³ M	BD	EQUIV CONDUCTNCE GRAPH	RALS EGGE	47003	T	L
		UNK 1.5 X10 ⁻³ M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
2 ENTRIES FOR COMPOUND								

Concentration units: A—mol %, B—vol % solvent, C—mol % surfactant mixture, counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 266 MOL WGT -	350.0	HEXADECYL DIMETHYL 2-HYDROXYETHYL AMMONIUM CHLORIDE						
1 ENTRIES FOR COMPOUND	30	1.2 X10-3 M	CC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	47003	T	L
COMPOUND NO = 267 MOL WGT -	380.1	HEXADECYL DI-/2-HYDROXYETHYL/METHYL AMMONIUM CHLORIDE						
1 ENTRIES FOR COMPOUND	30	1.0 X10-3 M	CC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	47003	T	L
COMPOUND NO = 268 MOL WGT -	410.1	HEXADECYL TRI-/2-HYDROXYETHYL/ AMMONIUM CHLORIDE						
1 ENTRIES FOR COMPOUND	30	1.0 X10-3 M	CC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	47003	T	L
COMPOUND NO = 269 MOL WGT -	380.1	HEXADECYLDIMETHYL2,3-DIHYDROXYPROPYLAMMONIUM CHLORIDE						
1 ENTRIES FOR COMPOUND	30	1.6 X10-3 M	CC	EQUIV CONDUCTNCE GRAPH	RALS EGGE	47003	T	L
COMPOUND NO = 270 MOL WGT -	348.1	OCTADECYL TRIMETHYLAMMONIUM CHLORIDE						
	25	3.4 X10-4 M	BD	EQUIV CONDUCTNCE GRAPH	GRIE KRAU	48010	T	L
	30	4. X10-4 M	CE	EQUIV CONDUCTNCE GRAPH	RALS EGGE	47003	T	L
	30	3. X10-4 M	CD	EQUIV CONDUCTNCE GRAPH	RALS EGGE	47003	K	L
	UNK	3.46 X10-4 M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
4.74 E O H METHANOL	25	4.00 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	GRIE KRAU	48010	P	3
5 ENTRIES FOR COMPOUND								
COMPOUND NO = 271 MOL WGT -	306.3	SODIUM TRI-ISO-PROPYL BENZENE SULFONATE						
	31	6.5 X10-2 M	FC	KRAFT POINT SOLUBILITY	SHUC LING	49004	K	L
2 ENTRIES FOR COMPOUND	30	6.1 X10-2 M	FG	UNSPEC SPCTR CHNG PNCR	SHUC LING	49004	T	L
COMPOUND NO = 272 MOL WGT -	284.3	TRI-ISOPROPYL BENZENE SULFONIC ACID						
1 ENTRIES FOR COMPOUND	50	5.5 X10-2 M	FB	EQUIV CONDUCTNCE GRAPH	SHUC LING	49004	T	3
COMPOUND NO = 273 MOL WGT -	222.3	SODIUM DODECANOATE						
	59016			VALUES FRM REF IN CMC	BOTR CRES	60024		R
	42004			VALUES FRM REF IN CMC	EKWA	40003		R
				QUESTIONABLE CRITERION	EKWA LIND	41004		R
	17	2.7 X10-2 M	DC	EQUIV CONDUCTNCE GRAPH	EKWA	27001	L	L
	20	3.1 X10-2 M	XG	VISCOSITY MINIMUM	SATA TYUZ	53006	T	L
	20			QUESTIONABLE CRITERION	HESS PHIL	39009		R
	20	2.84 X10-2 M	DB	EQUIV CONDUCTNCE GRAPH	EKWA	42004	P	L
	25	2.60 X10-2 M	HC	FOTOMTR SOLUBLZTN PDMAB	GINN KINN	59009	T	L
	25	2.64 X10-2 M	HC	FOTOMTR SOLUBLZTN OROT	GINN KINN	59009	T	L
	25	2.6 X10-2 M	XG	VISUAL SPCTR CHNGE	KLEV	53010	T	L
	25	2.77 X10-2 M	DB	EQUIV CONDUCTNCE GRAPH	EKWA	42004	P	L
	25	2.37 X10-2 M	DG	VISUAL SPCTR CHNGE PNCR	MERR GETT	48024	T	L
	25	2.44 X10-2 M	DB	SPECFC CONDUCTNCE GRAPH	CAMP LAKS	65024	T	3
	25	2.30 X10-2 M	DG	SURFACE TENSION MINIMUM	CAMP LAKS	65024	T	L
	30	2.72 X10-2 M	DB	EQUIV CONDUCTNCE GRAPH	EKWA	42004	P	L
	30	2.55 X10-2 M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T	L
	30	2.53 X10-2 M	DB	FOTOMTR SOLUBLZTN OROT	KOLT STRI	48016	T	L
	35	2.66 X10-2 M	DB	EQUIV CONDUCTNCE GRAPH	EKWA	42004	P	L
	35	2.50 X10-2 M	DB	SPECFC CONDUCTNCE GRAPH	CAMP LAKS	65024	T	L
	40	2.64 X10-2 M	DB	EQUIV CONDUCTNCE GRAPH	EKWA	42004	P	L
	40	2.5 X10-2 M	DC	FOTOMTR SOLUBLZTN PDMAB	KOLT JOHN	46006	T	L
	45	2.69 X10-2 M	DB	EQUIV CONDUCTNCE GRAPH	EKWA	42004	P	L
	50	2.72 X10-2 M	DB	EQUIV CONDUCTNCE GRAPH	EKWA	42004	P	L
	50	2.55 X10-2 M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T	L
	50	2.3 X10-2 M	DC	FOTOMTR SOLUBLZTN PDMAB	KOLT JOHN	46006	T	L
	50	2.80 X10-2 M	DG	SURFACE TENSION MINIMUM	CAMP LAKS	65024	T	L
	50	1.91 X10-2 M	DG	VISUAL SPCTR CHNGE PNCR	RAIS	52016	T	L
	50	48016		VALUES FRM REF IN CMC	KOLT STRI	49005		R
	50	2.15 X10-2 M	HB	SPECFC CONDUCTNCE GRAPH	MARO ELDE	54006	T	L
	60	2.6 X10-2 M	DC	PH OR HYDROLYSIS	STAU	39006	G	L
	60	2.6 X10-2 M	DG	SOLUBLZTN TOLUENE	DEMC DUMA	60032	T	L
	60	5.6 X10-1 D	DG	SOLUBLZTN TOLUENE	DEMC	60034	T	L
		2.51 X10-2 M						M
	60	2.4 X10-2 M	DC	FOTOMTR SOLUBLZTN OROT	MERR GETT	48024	T	L
	RM	2.7 X10-2 M	DC	ULTRAFILTRATION	EKWA	27001	L	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
	RM	3.0 X10 ⁻² M	DE	PH OR HYDROLYSIS	EKWA	27001	L	L
	UNK	2.1 X10 ⁻² M	DE	ELECTROMOTIVE FORCE	CARR JOHN	47013	T	L
	UNK	2.3 X10 ⁻² M	DC	FOTOMTR SOLUBLZTN PDMAB	CARR JOHN	47013	T	L
	UNK	3.2 X10 ⁻² M	DB	UNSPECIFIED CONDUCTANCE	BOTR CRES	59016	T	L
	UNK	3.5 X10 ⁻² M	DD	ELECTROMOTIVE FORCE	BOTR CRES	59016	T	L
	UNK	5.9 X10 ⁻¹ D	DG	VISUAL SPCTR CHNGE PNCN	DEMC	60034	T	L
		2.65 X10 ⁻² M					M	M
	UNK	5.9 X10 ⁻¹ D	CG	VISUAL SPCTR CHNGE PNCN	DEMC	61030	T	L
		2.65 X10 ⁻² M					M	M
	UNK	5.9 X10 ⁻¹ D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
		2.65 X10 ⁻² M					M	M
5.83 E-3 M	CALGON (NA HXMTF*)	25	2.33 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.11 E-2 M	CALGON (NA HXMTF*)	25	2.22 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.18 E-2 M	CALGON (NA HXMTF*)	25	2.18 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
4.35 E-2 M	CALGON (NA HXMTF*)	25	2.17 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
9.6 E-3 M	CARBOXYMETHYLCELLULO	23	1.93 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.96 E-2 M	CARBOXYMETHYLCELLULO	23	1.88 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
E 0	NA H CO3	UNK			GRAPH DATA NOT RETRIEVED	DEMC ZAKH	62038	R
2.18 E-2 M	NA CL	25	1.82 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
3.0 E-2 M	NA CL	25	1.49 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
4.23 E-2 M	NA CL	25	1.41 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
6.9 E-2 M	NA CL	25	1.15 X10 ⁻² M	DG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1. E-1 N	NA CL	50	1.1 X10 ⁻² M	DD	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
1. E-1 N	NA CL	50	4. X10 ⁻³ M	DE	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
5. E 0 N	NA CL	50	2. X10 ⁻³ M	DE	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	49005	T L
E 0	NA CL	UNK			GRAPH DATA NOT RETRIEVED	DEMC	61030	R
7.57 E-3 M	NA2 CO3	25	1.91 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.03 E-2 M	NA2 CO3	25	1.72 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.24 E-2 M	NA2 CO3	25	1.55 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.64 E-2 M	NA2 CO3	25	1.32 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
3.63 E-2 M	NA2 CO3	25	1.14 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
4.25 E-2 M	NA2 CO3	25	1.06 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
4.66 E-2 M	NA2 CO3	25	9.32 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
5.46 E-2 M	NA2 CO3	25	9.10 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
6.39 E-2 M	NA2 CO3	25	8.18 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
E 0	NA2 CO3	UNK			GRAPH DATA NOT RETRIEVED	DEMC ZAKH	62038	R
E 0	NA NO3	UNK			GRAPH DATA NOT RETRIEVED	DEMC	61030	R
7.29 E-3 M	NA OH	25	1.82 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.07 E-2 M	NA OH	25	1.79 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
3.17 E-2 M	NA OH	25	1.59 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
5.09 E-2 M	NA OH	25	1.26 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
6.45 E-2 M	NA OH	25	1.08 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
7.84 E-2 M	NA OH	25	9.75 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
4. E 0 I	NA OH	25	2.4 X10 ⁻² W	CG	VISUAL SPCTR CHNGE RHD6	FINE MBA	48011	T L
E 0	NA OH	50	2.7 X10 ⁻² W	CC	VAPR PRESURE LOWERING	HUFF MBA	51004	T L
1. E-1 H	NA OH	70	2.1 X10 ⁻² M	CC	SURFACE TENSION LOG PLOT	POWN ADDI	38006	T L
1. E-1 H	NA OH	70	2.0 X10 ⁻² M	CC	INTERFACIAL TENSION LOGM	POWN ADDI	38006	T L
E 0	NA OH	UNK			GRAPH DATA NOT RETRIEVED	DEMC ZAKH	62038	R
1.81 E-3 M	NA4 P207 PYRO	25	2.17 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
3.15 E-3 M	NA4 P207 PYRO	25	1.88 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
4.3 E-3 M	NA4 P207 PYRO	25	1.73 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
5.4 E-3 M	NA4 P207 PYRO	25	1.62 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.04 E-2 M	NA4 P207 PYRO	25	1.22 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.59 E-2 M	NA4 P207 PYRO	25	1.04 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
3.15 E-2 M	NA4 P207 PYRO	25	9.42 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
9.2 E-3 M	NA P04	25	1.82 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.54 E-2 M	NA P04	25	1.54 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.39 E-2 M	NA P04	25	1.19 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.44 E-2 M	NA P04	25	1.22 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
4.0 E-2 M	NA P04	25	1.0 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
E 0	NA P04	UNK			GRAPH DATA NOT RETRIEVED	DEMC ZAKH	62038	R
E 0	NA2 S04	UNK			GRAPH DATA NOT RETRIEVED	DEMC	61030	R
9.9 E-3 M	NA2 B407	25	1.99 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.67 E-2 M	NA2 B407	25	1.67 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.78 E-2 M	NA2 B407	25	1.39 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.82 E-2 M	NA2 B407	25	1.41 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
4.40 E-2 M	NA2 B407	25	1.10 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
E 0	NA2 B407	UNK			GRAPH DATA NOT RETRIEVED	DEMC ZAKH	62038	R
6.51 E-3 M	NA2 S103 META	25	2.05 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
7.63 E-3 M	NA2 S103 META	25	1.90 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
9.29 E-3 M	NA2 S103 META	25	1.80 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.04 E-2 M	NA2 S103 META	25	1.64 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.21 E-2 M	NA2 S103 META	25	1.52 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.55 E-2 M	NA2 S103 META	25	1.27 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
4.04 E-2 M	NA2 S103 META	25	1.01 X10 ⁻² M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
5.15 E-2 M	NA2 S103 META	25	8.6 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
8.9	E-3 M	SI02/NA20 = 1.60	25	1.72 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.52	E-2 M	SI02/NA20 = 1.60	25	1.47 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.57	E-2 M	SI02/NA20 = 1.60	25	1.51 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.05	E-2 M	SI02/NA20 = 1.60	25	1.32 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.47	E-2 M	SI02/NA20 = 1.60	25	1.19 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
3.34	E-2 M	SI02/NA20 = 1.60	25	1.08 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.25	E-2 M	SI02/NA20 = 1.60	60	1.8 X10 ⁻² M	HD	FOTOMTR SOLUBLZTN OROT	MERR GETT	48024	T L
2.5	E-2 M	SI02/NA20 = 1.60	60	1.4 X10 ⁻² M	HD	FOTOMTR SOLUBLZTN OROT	MERR GETT	48024	T L
9.8	E-3 M	SI02/NA20 = 2.46	25	1.96 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.09	E-2 M	SI02/NA20 = 2.46	25	1.56 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.84	E-2 M	SI02/NA20 = 2.46	25	1.42 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
3.46	E-2 M	SI02/NA20 = 2.46	25	1.30 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
4.35	E-2 M	SI02/NA20 = 2.46	25	1.09 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
5.82	E-2 M	SI02/NA20 = 2.46	25	9.75 X10 ⁻³ M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.5	E-2 M	SI02/NA20 = 2.46	60	1.4 X10 ⁻² M	HD	FOTOMTR SOLUBLZTN OROT	MERR GETT	48024	K L
4.3	E-3 M	SI02/NA20 = 3.93	25	2.18 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
8.3	E-3 M	SI02/NA20 = 3.93	25	2.08 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
1.20	E-2 M	SI02/NA20 = 3.93	25	2.00 X10 ⁻² M	HG	VISUAL SPCTR CHNGE PNCN	MERR GETT	48024	T L
2.5	E-2 M	SI02/NA20 = 3.93	60	1.4 X10 ⁻² M	HD	FOTOMTR SOLUBLZTN OROT	MERR GETT	48024	K L
1.1	E 1	PH OF SOLUTION	24	2.3 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	T L
1.1	E 1	PH OF SOLUTION	24	2.3 X10 ⁻² M	BC	SURFACE TENSION LOG PLOT	HARV	56018	T 3
1.1	E 1	PH OF SOLUTION	30	2.25 X10 ⁻² M	BC	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T 3
1.1	E 1	PH OF SOLUTION	40	2.25 X10 ⁻² M	BC	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T L
1.1	E 1	PH OF SOLUTION	50	2.25 X10 ⁻² M	BC	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T L
1.1	E 1	PH OF SOLUTION	60	2.25 X10 ⁻² M	BC	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T L
1.1	E 1	PH OF SOLUTION	90	2.25 X10 ⁻² M	BC	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T L
3.2	E-4 M	1,2 DECANE DIOL	24	2.11 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
7.0	E-4 M	1,2 DECANE DIOL	24	1.86 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
8.9	E-4 M	1,2 DECANE DIOL	24	1.71 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
1.20	E-3 M	1,2 DECANE DIOL	24	1.80 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
1.51	E-3 M	1,2 DECANE DIOL	24	1.85 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
1.84	E-3 M	1,2 DECANE DIOL	24	1.92 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
3.2	E-4 M	1,10 DECANE DIOL	24	2.22 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
1.02	E-3 M	1,10 DECANE DIOL	24	2.08 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
2.02	E-3 M	1,10 DECANE DIOL	24	1.85 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
4.10	E-3 M	1,10 DECANE DIOL	24	1.39 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
4.6	E-5 M	DECANOL-1	24	2.20 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
8.5	E-5 M	DECANOL-1	24	2.17 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
1.05	E-4 M	DECANOL-1	24	2.15 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
1.46	E-4 M	DECANOL-1	24	2.15 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
1.61	E-4 M	DECANOL-1	24	2.15 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
1.99	E-4 M	DECANOL-1	24	2.12 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
7.7	E-3 M	HEXANOL-1	24	2.00 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
1.12	E-2 M	HEXANOL-1	24	1.88 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
1.58	E-2 M	HEXANOL-1	24	1.78 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
2.20	E-2 M	HEXANOL-1	24	1.55 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
2.92	E-2 M	HEXANOL-1	24	1.24 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
3.10	E-2 M	HEXANOL-1	24	1.30 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
4.02	E-2 M	HEXANOL-1	24	1.02 X10 ⁻² M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
4.11	E-2 M	HEXANOL-1	24	9.5 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							
4.97	E-2 M	HEXANOL-1	24	8.8 X10 ⁻³ M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.1	E 1	PH OF SOLUTION							

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
5.70 E-2 M HEXANOL-1 1.1 E 1 PH OF SOLUTION	24	7.1 X10-3 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
5.85 E-2 M HEXANOL-1 1.1 E 1 PH OF SOLUTION	24	7.5 X10-3 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.13 E-3 M HEPTANOL-1 1.1 E 1 PH OF SOLUTION	24	2.13 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
2.02 E-3 M HEPTANOL-1 1.1 E 1 PH OF SOLUTION	24	2.06 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
3.01 E-3 M HEPTANOL-1 1.1 E 1 PH OF SOLUTION	24	2.00 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
6.14 E-3 M HEPTANOL-1 1.1 E 1 PH OF SOLUTION	24	1.68 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
7.98 E-3 M HEPTANOL-1 1.1 E 1 PH OF SOLUTION	24	1.50 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
9.98 E-3 M HEPTANOL-1 1.1 E 1 PH OF SOLUTION	24	1.40 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.13 E-2 M HEPTANOL-1 1.1 E 1 PH OF SOLUTION	24	1.45 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.24 E-2 M HEPTANOL-1 1.1 E 1 PH OF SOLUTION	24	1.55 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
6.4 E-4 M OCTANOL-1 1.1 E 1 PH OF SOLUTION	24	2.10 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.27 E-3 M OCTANOL-1 1.1 E 1 PH OF SOLUTION	24	1.90 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.60 E-3 M OCTANOL-1 1.1 E 1 PH OF SOLUTION	24	1.93 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
1.92 E-3 M OCTANOL-1 1.1 E 1 PH OF SOLUTION	24	1.90 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
2.30 E-3 M OCTANOL-1 1.1 E 1 PH OF SOLUTION	24	1.95 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
2.69 E-3 M OCTANOL-1 1.1 E 1 PH OF SOLUTION	24	1.95 X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	HARV	56018	G L
174 ENTRIES FOR COMPOUND							
COMPOUND NO = 274 MOL WGT - 340.0 HEXADECYL PYRIDINIUM CHLORIDE							
	13.0	8.4 X10-4 M	BC	KRAFFT POINT SOLUBILITY	ADDI FURM	56019	T L
	18.5	8.5 X10-4 M	BC	INTERFACIAL TNSN UNSPEC	ADDI FURM	56019	T L
	23	5.0 X10-4 M	HG	STREAMING CURRENT	CARD	66011	T L
	25	9. X10-4 M	BD	EQUIV CONDUCTNCE GRAPH	MALS HART	34001	K L
	25	9.0 X10-4 M	BB	FOTOMTR SOLUBLZTN AZBZ	HART	38001	P 3
	25	6.7 X10-4 M	BG	EQUIV COND MAX BEGINING	GRIE KRAU	49018	T L
	25	3. X10-5 W	HC	VISUAL SPCTR CHNGE	FINE MCBA	48011	T L
	80	2.2 X10-3 M	BG	EQUIV COND 1ST DEVIATION	HART	36002	T L
	80	2.36 X10-3 M	BC	SPECFC CONDUCTNCE GRAPH	HART	36002	P 3
3.2 E-3 N NA CL	25	4.0 X10-4 M	BD	FOTOMTR SOLUBLZTN AZBZ	HART	38001	P L
1.0 E-2 N NA CL	25	1.8 X10-4 M	BD	FOTOMTR SOLUBLZTN AZBZ	HART	38001	P L
3.2 E-2 N NA CL	25	8. X10-5 M	BE	FOTOMTR SOLUBLZTN AZBZ	HART	38001	P L
7.43 E-3 M NA CL	31	1.6 X10-4 M	BG	TURBIDITY PLT LITE SCATR	ANAC	58009	G L
1.754E-2 M NA CL	31	1.2 X10-4 M	BG	TURBIDITY PLT LITE SCATR	ANAC	58009	G L
4.05 E-2 M NA CL	31	8.3 X10-5 M	BG	TURBIDITY PLT LITE SCATR	ANAC	58009	G L
3.08 E-1 M NA CL	31	3.2 X10-5 M	BG	TURBIDITY PLT LITE SCATR	ANAC	58009	G L
4.382E-1 M NA CL	31	6.9 X10-5 M	BG	TURBIDITY PLT LITE SCATR	ANAC	58009	G L
6.17 E-1 M NA CL	31	3.3 X10-5 M	BG	TURBIDITY PLT LITE SCATR	ANAC	58009	G L
7.30 E-1 M NA CL	31	9.6 X10-6 M	BG	TURBIDITY PLT LITE SCATR	ANAC	58009	G L
1.00 E 2 E NITROBENZENE	25	5.8 X10-4 M	BA	EQUIV CONDUCTNCE GRAPH	GRIE KRAU	49018	T 3
20 ENTRIES FOR COMPOUND							
COMPOUND NO = 275 MOL WGT - 396.1 HEXADECYL DIMETHYLBENZYLAMMONIUM CHLORIDE							
	23	4.2 X10-5 M	HG	STREAMING CURRENT	CARD	66011	T L
	26	2. X10 4 W	HC	VISUAL SPCTR CHNGE	FINE MCBA	48011	T L
	UNK	4.4 X10-5 M	PG	VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
3 ENTRIES FOR COMPOUND							
COMPOUND NO = 276 MOL WGT - 596.8 NONAETHYLENE GLYCOL MONODODECANOATE							
NATURAL DISTRIBUTION OF HEAD GROUPS							
	0	6.3 X10-4 W	HD	FREEZING POINT	GONI MCBA	47007	T L
1 ENTRIES FOR COMPOUND							
COMPOUND NO = 277 MOL WGT - 349.6 BENZYL TRIMETHYL AMMONIUM DODECANOATE							
4. E O I C6H5 (CH3)3 N OH	25	1 X10-2 M	HE	EQUIV CONDUCTNCE GRAPH	BRAD MCBA	48009	T L
1 ENTRIES FOR COMPOUND							

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
COMPOUND NO = 278 MOL WGT - 283.9 DODECYL PYRIDINIUM CHLORIDE							
	25	1.5 X10-2 M	XG	QUESTIONABLE CRITERION	BROW ROBI	52013	R
	25	2.8 X10-3 M	HE	VISUAL SPCTR CHNGE	KLEV	53010	T L
	25	1.47 X10-2 M	CC	EQUIV CONDUCTNCE GRAPH	BRAD MCBA	48009	T L
	25	1.46 X10-2 M	CB	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T 3
	25	1.4 X10-2 M	BC	SURFACE TENSION UNSPEC	FORD OTTE	66028	T L
	25	1.4 X10-2 M	BC	SURFACE TENSION LOG PLOT	WEIN ZOGR	65026	T L
	30	2.0 X10-2 W	CC	VAPR PRESURE LOWERING	HUFF MCBA	51004	T L
	30	1.74 X10-2 M	CB	SPECFC CONDUCTNCE GRAPH	MEGU KOND	59024	T L
	30	1.71 X10-2 M	CG	FOTOMTR SPCTR CHNGE EOSN	MEGU KOND	59084	T L
	30	1.5 X10-2 M	XC	REFRACTIVE INDEX	KLEV	53010	T L
	50	2.0 X10-2 W	CC	VAPR PRESURE LOWERING	HUFF MCBA	51004	T L
	50	1.51 X10-2 M	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
2.	E-2 M	K CL	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T L
2.	E-2 M	K CL	CC	SURFACE TENSION UNSPEC	FORD OTTE	66028	T L
5.	E-2 M	K CL	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T L
5.	E-2 M	K CL	CC	SURFACE TENSION UNSPEC	FORD OTTE	66028	T L
8.	E-2 M	K CL	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T L
1.	E-1 M	K CL	BC	SURFACE TENSION LOG PLOT	WEIN ZOGR	65026	T L
2.	E-3 N	K CNS	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.	E-2 N	K CNS	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
3.	E-2 N	K CNS	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.	E-2 N	NA BR	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
3.	E-2 N	NA BR	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.	E-1 N	NA BR	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
5.	E-1 N	NA BR	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
5.	E-3 M	NA CL	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.	E-2 M	NA CL	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
2.	E-2 M	NA CL	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
5.	E-2 M	NA CL	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.0	E-1 M	NA CL	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
3.	E-1 M	NA CL	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.0	E 0 M	NA CL	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.	E-2 N	NA I	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
2.5	E-2 N	NA I	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
9.	E-2 N	NA I	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.	E-2 N	NA N03	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
3.	E-2 N	NA N03	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.	E-1 N	NA N03	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
5.	E-1 N	NA N03	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.	E-3 N	NA4 P207 PYRO	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
2.	E-3 N	NA4 P207 PYRO	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
5.	E-3 N	NA4 P207 PYRO	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.	E-2 N	NA4 P207 PYRO	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
2.	E-2 N	NA4 P207 PYRO	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
5.	E-2 N	NA4 P207 PYRO	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.0	E-1 N	NA4 P207 PYRO	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
2.	E-1 N	NA4 P207 PYRO	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
4.	E-1 N	NA4 P207 PYRO	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.0	E 0 N	NA4 P207 PYRO	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
2.	E-3 N	NA2 S04	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
5.	E-3 N	NA2 S04	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.	E-2 N	NA2 S04	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
2.	E-2 N	NA2 S04	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
3.	E-2 N	NA2 S04	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
5.	E-2 N	NA2 S04	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.0	E-1 N	NA2 S04	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
3.0	E-1 N	NA2 S04	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
1.0	E 0 N	NA2 S04	CG	VISUAL SPCTR CHNGE EOSN	LANG	51005	G L
58 ENTRIES FOR COMPOUND							
COMPOUND NO = 279 MOL WGT - 340.0 DODECYL BENZYL DIMETHYLAMMONIUM CHLORIDE							
	25	2.3 X10-3 M	HC	QUESTIONABLE CRITERION	YANG FOST	53015	R
	25.0	7.8 X10-3 M	CB	EQUIV CONDUCTNCE GRAPH	BRAD MCBA	48009	T L
	UNK	2.8 X10-3 M	PG	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G 3
	UNK	8.1 X10-3 M	CC	VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
	UNK	8.1 X10-3 M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T L
5.	E 2 Y	PRESSURE	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G 3
1.	E 3 Y	PRESSURE	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G 3
2.	E 3 Y	PRESSURE	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G 3
3.	E 3 Y	PRESSURE	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G 3
4.	E 3 Y	PRESSURE	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G 3
5.	E 3 Y	PRESSURE	CB	SPECFC CONDUCTNCE GRAPH	OSUG SATO	65036	G 3
11 ENTRIES FOR COMPOUND							

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; T—wt % surfactant mixture; U—mol/dl or kg; W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Compounds	Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation								
COMPOUND NO = 280	MOL WGT -	465.8	DECYL	TRIMETHYL AMMONIUM DODECYL SULFATE													
										25	1.9	X10-4 M	CE UNSPEC SOLUBLZTN SDN 4	HOYE MARM	61001	TL	L
										25	2.1	X10-4 M	DC SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T	L
										UNK	1.85	X10-3 D	BD DEBYE PLT LIGHT SCATTER	HOYE DOER	64007	T	L
3 ENTRIES FOR COMPOUND																	
COMPOUND NO = 281	MOL WGT -	493.8	DODECYL	TRIMETHYLAMMONIUM DODECYL SULFATE													
										25	3.	X10-5 M	CE SURFACE TNSN LINEAR PLOT	HOYE MARM	61001	T	L
1 ENTRIES FOR COMPOUND																	
COMPOUND NO = 282	MOL WGT -	506.8	HEXADECYL /OXYETHYLENE/ 6	ALCOHOL	HOMOGENEOUS HEAD GROUP												
										20	9.9	X10-5 M	BC SURFACE TENSION LOG PLOT	CARL CHAL	64009	T	L
										25	1.0	X10-6 M	BD SURFACE TENSION LOG PLOT	GOOD OTTE	61004	T	P
										25	1.66	X10-6 M	BC SURFACE TENSION LOG PLOT	ELWO MACF	62027	T	P
										27	9.4	X10-5 M	BG POTOMTR SPCTR CHNG I2	CARL CHAL	64009	T	L
										28	5.	X10-5 D	BE SURFACE TENSION LOG PLOT	CORK GOOD	64023	T	L
5 ENTRIES FOR COMPOUND																	
COMPOUND NO = 283	MOL WGT -	399.7	HEXANOLAMINE-CH3CH/OH/CH2C/CH3/2NH2-ELAIDATE														
										0	6.	X10-4 W	DD FREEZING POINT	GONI MCBA	46016	T	L
1 ENTRIES FOR COMPOUND																	
COMPOUND NO = 284	MOL WGT -	261.4	HEXANOLAMINE-CH3CH/OH/CH2C/CH3/2NH2-OCTANOATE														
										0	3.1	X10-1 M	DC FREEZING POINT	GONI	46019	K	L
										20	2.6	X10-1 M	XG VISCOSITY MINIMUM	SATA TYUZ	53006	T	L
2 ENTRIES FOR COMPOUND																	
COMPOUND NO = 285	MOL WGT -	399.7	HEXANOLAMINE-CH3CH/OH/CH2C/CH3/2NH2-OLEATE														
										0	6.0	X10-4 W	DD FREEZING POINT	GONI MCBA	46008	T	L
1 ENTRIES FOR COMPOUND																	
COMPOUND NO = 286	MOL WGT -	439.6	AMMONIUM DI-2-ETHYL-HEXYL SULFOSUCCINATE														
										0	4.	X10-3 W	CE FREEZING POINT	MCBA BRAD	43006	T	L
1 ENTRIES FOR COMPOUND																	
COMPOUND NO = 287	MOL WGT -	365.6	OCTYL	TRIMETHYLAMMONIUM OCTANE SULFONATE													
										25	2.1	X10-2 M	BC METHOD NOT CITED	CORK GOOD	66014	T	L
										25	2.016	X10-2 M	CA SPECFC CONDUCTNCE GRAPH	TART LING	43004	P	3
										RM	1.99	X10-2 M	BE DEBYE PLT LIGHT SCATTER	ANAC	53002	T	L
3 ENTRIES FOR COMPOUND																	
COMPOUND NO = 288	MOL WGT -	421.7	DECYL	TRIMETHYLAMMONIUM DECANESULFONATE													
										25	1.36	X10-3 M	BC METHOD NOT CITED	CORK GOOD	66014	T	3
										40	1.40	X10-3 M	CA SPECFC CONDUCTNCE GRAPH	TART LING	43004	P	3
										RM	1.3	X10-3 M	BD TURBIDITY PLT LITE SCATR	ANAC	53002	KC	L
3 ENTRIES FOR COMPOUND																	
COMPOUND NO = 289	MOL WGT -	478.7	TETRADECYL/OXYETHYLENE/6	ALCOHOL	HOMOGENEOUS HEAD GROUP												
										25	5.	X10-4 D	BE SURFACE TENSION LOG PLOT	CORK GOOD	64023	T	L
											1.0	X10-5 M					M
1 ENTRIES FOR COMPOUND																	
COMPOUND NO = 290	MOL WGT -	328.3	DODECYL	PYRIDINIUM BROMIDE													
										5	1.15	X10-2 W	BA SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3
										10	1.12	X10-2 W	BA SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	2
										15	1.10	X10-2 W	BA SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	2
										20	1.12	X10-2 W	BA SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	2
										25	1.14	X10-2 W	BA SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	1
										25	1.6	X10-2 M	XG VISUAL SPCTR CHNGE	KLEV	53010	T	L
										25	1.16	X10-2 M	CC TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T	L
										25	1.20	X10-2 M	CB SURFACE TENSION UNSPEC	FORD OTTE	66028	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol / D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/l (or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation	
	25	1.13 X10 ⁻² M	CA	SPECFC CONDUCTNCE GRAPH	BENT SPAR	66038	T	L	
	25	1.21 X10 ⁻² M	CB	MICELLAR SPECTRAL CHANGE	MUKE RAY	66006	T	L	
	30	1.21 X10 ⁻² M	BB	SURFACE TENSION LOG PLOT	VENA NAUM	64001	T	L	
	30	1.18 X10 ⁻² W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	2	
	30	1.25 X10 ⁻² M	CA	SPECFC CONDUCTNCE GRAPH	MEGU KOND	59024	T	L	
	30	1.25 X10 ⁻² M	CG	FOTOMTR SPCTR CHNGE EOSN	MEGU KOND	59024	T	L	
	35	1.22 X10 ⁻² W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	2	
	40	1.28 X10 ⁻² W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3	
	45	1.35 X10 ⁻² W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3	
	50	1.40 X10 ⁻² W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3	
	55	1.48 X10 ⁻² W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3	
	60	1.54 X10 ⁻² W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3	
	65	1.63 X10 ⁻² W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3	
	70	1.72 X10 ⁻² W	BA	SPECFC CONDUCTNCE GRAPH	ADDE TAYL	64050	T	3	
2.	E-2 M	K BR	25	7.20 X10 ⁻³ M	CB	SURFACE TENSION UNSPEC	FORD OTTE	66028	T L
2.	E-2 M	K BR	25	7.32 X10 ⁻³ M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T 3
4.	E-2 M	K BR	25	4.88 X10 ⁻³ M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T 3
5.	E-2 M	K BR	25	4.70 X10 ⁻³ M	CB	SURFACE TENSION UNSPEC	FORD OTTE	66028	T L
6.	E-2 M	K BR	25	3.96 X10 ⁻³ M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T 3
8.	E-2 M	K BR	25	3.36 X10 ⁻³ M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T 3
1.0	E-1 M	K BR	25	2.74 X10 ⁻³ M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T L
3.0	E-2 M	K BR	30	6.5 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE EOSN	MEGU KOND	59024	T L
3.0	E-2 M	K I	30	3.5 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE EOSN	MEGU KOND	59024	T L
3.0	E-2 M	K IO3	30	1.04 X10 ⁻² M	CG	FOTOMTR SPCTR CHNGE EOSN	MEGU KOND	59024	T L
3.0	E-2 M	K2 SO4	30	7.9 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE EOSN	MEGU KOND	59024	T L
6.	E-2 M	LI BR	25	3.96 X10 ⁻³ M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T 3
5.	E-2 M	NA BR	30	3.66 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	VENA NAUM	64001	TA L
3.0	E-2 M	NA CL	30	9.1 X10 ⁻³ M	CG	FOTOMTR SPCTR CHNGE EOSN	MEGU KOND	59024	T L
6.	E-2 M	RB BR	25	3.35 X10 ⁻³ M	CC	TURBIDITY PLT LITE SCATR	FORD OTTE	66028	T 3
	E O	0427				GRAPH DATA NOT RETRIEVED	LANG	53005	R
38 ENTRIES FOR COMPOUND									
COMPOUND NO = 291 MOL WGT - 420.6 TETRADECYL TRIPROPYLAMMONIUM BROMIDE									
			30	2.05 X10 ⁻³ M	BB	SURFACE TENSION LOG PLOT	VENA NAUM	64001	T L
5.	E-2 M	NA BR	30	2.76 X10 ⁻⁴ M	BB	SURFACE TENSION LOG PLOT	VENA NAUM	64001	TA L
2 ENTRIES FOR COMPOUND									
COMPOUND NO = 292 MOL WGT - 448.7 HEXADECYL TRIPROPYLAMMONIUM BROMIDE									
			30	5.7 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	VENA NAUM	64001	T L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 293 MOL WGT - 310.3 DODECYL DIMETHYL AMINE OXIDE HYDROBROMIDE									
1.	E-3 M	H BR	27	4. X10 ⁻² D	BD	TURBIDITY PLT LITE SCATR	HERR	64006	T L
2.	E-1 M	NA BR		1.2 X10 ⁻³ M					M
1.	E-3 M	H BR	50	7. X10 ⁻² D	BD	TURBIDITY PLT LITE SCATR	HERR	64006	T L
2.	E-1 M	NA BR		2.2 X10 ⁻³ M					M
2 ENTRIES FOR COMPOUND									
COMPOUND NO = 294 MOL WGT - 366.5 HEXYL/OXYETHYLENE/6 ALCOHOL HOMOGENEOUS HEAD GROUP									
			20	7.4 X10 ⁻² M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T L
			20	7.5 X10 ⁻² M	BE	SURFACE TENSION LOG PLOT	MULL METC	62015	T L
			25	1.18 X10 ⁻¹ M	BC	VAPR PRESURE LOWERING	CORK GOOD	64027	L L
			30	6.5 X10 ⁻² M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T L
			40	5.2 X10 ⁻² M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T L
			45	7.8 X10 ⁻² M	BC	VAPR PRESURE LOWERING	CORK GOOD	64027	L L
6 ENTRIES FOR COMPOUND									
COMPOUND NO = 295 MOL WGT - 246.2 SODIUM NONYL 1-SULFATE									
			20	6.5 X10 ⁻² M	BB	INTERFACIAL TENSION LOGM	V VO	60025	T L
			21	1.66 X10 ⁰ D	BD	REFRACTIVE INDEX	HUIS	64047	T L
				6.742X10 ⁻² M					M
			21	1.59 X10 ⁰ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T 3
				6.458X10 ⁻² M					M
			25	1.35 X10 ⁰ D	DB	REFRACTIVE INDEX	PRIN HERM	56011	T L
				5.483X10 ⁻² M					M
			25	1.45 X10 ⁰ D	DB	TURBIDITY PLT LITE SCATR	PRIN HERM	56011	T L
				5.889X10 ⁻² M					M

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives			Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
1.	E-1 K	NA CL	20	4.3 X10 ⁻² M	BB	INTERFACIAL TENGION LOGM	V VO	60025	T	L
3.	E-2 M	NA CL	21	1.30 X10 ⁰ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
				5.280X10 ⁻² M						M
1.	E-1 M	NA CL	21	1.00 X10 ⁰ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
				4.061X10 ⁻² M						M
1.	E-1 M	NA CL	21	1.05 X10 ⁰ D	BD	REFRACTIVE INDEX	HUIS	64047	T	L
				4.264X10 ⁻² M						M
3.	E-1 M	NA CL	21	6.3 X10 ⁻¹ D	BB	TURBIDITY PLT LITE SCATR	HUIS	64047	T	3
				2.55 X10 ⁻² M						M
7.5	E-2 M	NA CL	25	1.2 X10 ⁰ D	DC	TURBIDITY PLT LITE SCATR	PRIN HERM	56011	T	L
				4.87 X10 ⁻² M						M
11 ENTRIES FOR COMPOUND										
COMPOUND NO = 296 MOL WGT - 168.2 POTASSIUM HEPTANOATE										
			25	7.5 X10 ⁻¹ M	BG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L
2.	E 0 I	K OH	25	8.0 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G	L
1.	E-5 N	PINACYANOL CL (DYE)	25	4.5 X10 ⁻¹ M	DG	FOTOMTR SPCTR CHNGE PNCN	HERZ	52015	T	L
2.5	E-5 N	PINACYANOL CL (DYE)	25	6.70 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
2.5	E-5 N	PINACYANOL CL (DYE)	25	6.70 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
5.	E-5 N	PINACYANOL CL (DYE)	25	7.80 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
5.	E-5 N	PINACYANOL CL (DYE)	25	5.5 X10 ⁻¹ M	DG	FOTOMTR SPCTR CHNGE PNCN	HERZ	52015	T	L
5.	E-5 N	PINACYANOL CL (DYE)	25	7.80 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
1.	E-4 N	PINACYANOL CL (DYE)	25	7.80 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
		0188	25			SEE CMPD NMBR IN ADDITV	SHIN	54003		X
		0188	25			SEE CMPD NMBR IN ADDITV	SHIN	54005		X
2.5	E-5 N	PINACYANOL CL (DYE)	25	6.62 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	6.6 E-2 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	6.17 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	1.54 E-1 M	K CL								
2.5	E-5 N	PINACYANOL FL (DYE)	25	5.77 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	2.89 E-1 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	5.43 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	4.07 E-1 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	5.22 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	5.22 E-1 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	4.85 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	7.28 E-1 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	4.30 X10 ⁻¹ M	DC	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	1.08 E 0 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	3.74 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	1.50 E 0 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	3.35 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	1.79 E 0 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	3.07 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	2.00 E 0 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	2.85 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	2.28 E 0 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	2.63 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	2.45 E 0 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	2.47 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	2.64 E 0 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	2.30 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	2.76 E 0 M	K CL								
2.5	E-5 N	PINACYANOL CL (DYE)	25	2.18 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	2.91 E 0 M	K CL								
5.	E-5 N	PINACYANOL CL (DYE)	25	7.28 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	1.46 E-1 M	K CL								
5.	E-5 N	PINACYANOL CL (DYE)	25	6.91 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	3.46 E-1 M	K CL								
5.	E-5 N	PINACYANOL CL (DYE)	25	6.33 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	6.33 E-1 M	K CL								
5.	E-5 N	PINACYANOL CL (DYE)	25	5.42 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	1.08 E 0 M	K CL								
5.	E-5 N	PINACYANOL CL (DYE)	25	4.30 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	1.72 E 0 M	K CL								
5.	E-5 N	PINACYANOL CL (DYE)	25	3.40 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	2.38 E 0 M	K CL								
5.	E-5 N	PINACYANOL CL (DYE)	25	2.80 X10 ⁻¹ M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	2.80 E 0 M	K CL								
1.07	E 1 C	0044	25	7.0 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G	L
	2. E 0 I	K OH								
1.57	E 1 C	0044	25	6.6 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G	L
	2. E 0 I	K OH								
2.50	E 1 C	0044	25	6.1 X10 ⁻¹ M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G	L
	2. E 0 I	K OH								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
3.36 E 1 C 0044 2. E O I K OH	25	5.6 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
4.36 E 1 C 0044 2. E O I K OH	25	5.2 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
5.53 E 1 C 0044 2. E O I K OH	25	4.9 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
6.66 E 1 C 0044 2. E O I K OH	25	4.5 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
8.18 E 1 C 0044 2. E O I K OH	25	4.1 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
2.1 E O C 0090 2. E O I K OH	25	5.9 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
6.0 E O C 0090 2. E O I K OH	25	4.4 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.40 E 1 C 0090 2. E O I K OH	25	3.1 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
2.88 E 1 C 0090 2. E O I K OH	25	2.0 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
5.41 E 1 C 0090 2. E O I K OH	25	1.5 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.2 E O C 0091 2. E O I K OH	25	3.8 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
7.3 E O C 0091 2. E O I K OH	25	1.4 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.94 E 1 C 0091 2. E O I K OH	25	8.0 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
3.97 E 1 C 0091 2. E O I K OH	25	5.6 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
7.02 E 1 C 0091 2. E O I K OH	25	3.7 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
E O C 0092 2. E O I K OH	25			GRAPH DATA NOT RETRIEVED	SHIN	54005		R
1.5 E O C 0092 2. E O I K OH	25	8.0 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
5.4 E O C 0092 2. E O I K OH	25	5.1 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.42 E 1 C 0092 2. E O I K OH	25	2.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
3.34 E 1 C 0092 2. E O I K OH	25	1.6 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
8. E-1 C 0297 2. E O I K OH	25	5.3 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
3.1 E O C 0297 2. E O I K OH	25	3.6 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
8.1 E O C 0297 2. E O I K OH	25	2.2 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
1.75 E 1 C 0297 2. E O I K OH	25	1.4 X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
4.05 E 1 C 0297 2. E O I K OH	25	9.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
0188 62 ENTRIES FOR COMPOUND	25			SEE CMPD NMBR IN ADDITV	SHIN	54003		X

COMPOUND NO = 297 MOL WGT - 224.4 POTASSIUM UNDECANOATE

	25	4.92 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T L	
	25	5.0 X10-2 M	BG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T L	
	25	4.92 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
4.8 E-3 M K CL	25	4.78 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1.44 E-2 M K CL	25	4.56 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1.87 E-2 M K CL	25	4.37 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
2.73 E-2 M K CL	25	4.09 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
3.86 E-2 M K CL	25	3.86 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
5.34 E-2 M K CL	25	3.56 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
7.64 E-2 M K CL	25	3.27 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1.03 E-1 M K CL	25	2.94 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1.33 E-1 M K CL	25	2.66 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1.69 E-1 M K CL	25	2.42 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
2.16 E-1 M K CL	25	2.16 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
2.87 E-1 M K CL	25	1.91 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
4.03 E-1 M K CL	25	1.61 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
5.06 E-1 M K CL	25	1.45 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
6.42 E-1 M K CL	25	1.28 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
8.30 E-1 M K CL	25	1.11 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1.01 E 0 M K CL	25	1.01 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1.18 E 0 M K CL	25	9.4 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives		Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
1.35	E O M K CL	25	9.0 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1.52	E O M K CL	25	8.7 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
1.70	E O M K CL	25	8.5 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
2.01	E O M K CL	25	8.1 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
2.22	E O M K CL	25	7.4 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L	
2.	E O I K OH	25	4.9 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54005	G L	
	0044	25			SEE CMPD NMBR IN ADDITV	SHIN	54005	X	
	0090	25			SEE CMPD NMBR IN ADDITV	SHIN	54005	X	
	0188	25			SEE CMPD NMBR IN ADDITV	SHIN	54005	X	
4.9	E O C 0091	25	4.5 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L	
2.	E O I K OH								
1.93	E l C 0091	25	4.0 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L	
2.	E O I K OH								
2.76	E l C 0091	25	3.8 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L	
2.	E O I K OH								
3.38	E l C 0091	25	3.6 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	GL L	
2.	E O I K OH								
4.63	E l C 0091	25	3.4 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L	
2.	E O I K OH								
5.76	E l C 0091	25	3.2 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L	
2.	E O I K OH								
6.99	E l C 0091	25	3.0 X10-2 M	BC	VISUAL SPCTR CHNGE PNCN	SHIN	54003	C L	
2.	E O I K OH								
8.38	E l C 0091	25	2.9 X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	54003	G L	
2.	E O I K OH								
	0296	25			SEE CMPD NMBR IN ADDITV	SHIN	54005	X	
2.	E O I K OH								
	0090	25			SEE CMPD NMBR IN ADDITV	SHIN	54003	X	
40 ENTRIES FOR COMPOUND									
COMPOUND NO = 298 MOL WGT - 250.3 SODIUM TETRADECANOATE									
			32001		VALUES FRM REF IN CMC	EKWA	40003	R	
21	6.	X10-3 M	DD	EQUIV CONDUCTNCE GRAPH	EKWA	27001	L L		
21	6.	X10-3 M	DE	PH OR HYDROLYSIS	EKWA	27001	L L		
25	6.9	X10-3 M	DB	SPECFC CONDUCTNCE GRAPH	CAMP LAKS	65024	T 3		
25	6.9	X10-3 M	DG	SURFACE TENSION MINIMUM	CAMP LAKS	65024	T L		
35	7.	X10-3 M	DD	EQUIV CONDUCTNCE GRAPH	EKWA	32001	K L		
35	6.95	X10-3 M	DB	SPECFC CONDUCTNCE GRAPH	CAMP LAKS	65024	T 3		
48	7.	X10-3 M	DD	EQUIV CONDUCTNCE GRAPH	EKWA	32001	K L		
50	7.5	X10-3 M	HB	SPECFC CONDUCTNCE GRAPH	MARO ELDE	54006	T L		
50	7.1	X10-3 M	DG	SURFACE TENSION MINIMUM	CAMP LAKS	65024	T L		
58	7.	X10-3 M	DD	EQUIV CONDUCTNCE GRAPH	EKWA	32001	K L		
60	1.00	X10-2 M	DC	PH OR HYDROLYSIS	STAU	39006	G L		
65	7.	X10-3 M	DD	EQUIV CONDUCTNCE GRAPH	EKWA	32001	K L		
80	9.	X10-3 M	DD	EQUIV CONDUCTNCE GRAPH	EKWA	32001	K L		
UNK	2.1	X10-1 D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T L		
		8.38	X10-3 M					M	
1.	E-1 H NA OH	70	2.9 X10-3 M	CC	SURFACE TENSION LOG PLOT	POWN ADDI	38006	T L	
1.	E-1 H NA OH	70	2.9 X10-3 M	CC	INTERFACIAL TENSION LOGM	POWN ADDI	38006	T L	
1.1	E l PH OF SOLUTION	40	4.4 X10-3 M	BD	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T L	
1.1	E l PH OF SOLUTION	50	4.4 X10-3 M	BD	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T L	
1.1	E l PH OF SOLUTION	60	4.4 X10-3 M	BD	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T L	
1.1	E l PH OF SOLUTION	90	4.4 X10-3 M	BD	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T L	
21 ENTRIES FOR COMPOUND									
COMPOUND NO = 299 MOL WGT - 194.2 SODIUM DECANOATE									
			41003		VALUES FRM REF IN CMC	EKWA	40003	R	
20	1.0	X10-1 M	XG	VISCOSITY MINIMUM	SATA TYUZ	53006	T L		
20	1.24	X10-1 M	DE	VISCOSITY	HESS PHIL	39009	T L		
20	9.5	X10-2 M	DE	PH OR HYDROLYSIS	EKWA	41003	T L		
20	9.7	X10-2 M	DC	EQUIV CONDUCTNCE GRAPH	EKWA	41003	T L		
25	9.40	X10-2 M	DB	SPECFC CONDUCTNCE GRAPH	CAMP LAKS	65024	T 3		
25	9.55	X10-2 M	DB	SURFACE TENSION LOG PLOT	CAMP LAKS	65024	T L		
30	1.06	X10-1 M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T L		
30	1.1	X10-1 M	DD	FOTOMTR SOLUBLZTN PDMAB	KOLT JOHN	46006	T L		
35	9.80	X10-2 M	DB	SPECFC CONDUCTNCE GRAPH	CAMP LAKS	65024	T 3		
50	1.05	X10-1 M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T L		
50	1.05	X10-1 M	DB	FOTOMTR SOLUBLZTN PDMAB	KOLT JOHN	46006	T L		
50	1.060	X10-1 M	DB	SURFACE TENSION LOG PLOT	CAMP LAKS	65024	T L		
UNK	1.0	X10-1 M	DE	ELECTROMOTIVE FORCE	CARR JOHN	47013	T L		
UNK	1.05	X10-1 M	DB	FOTOMTR SOLUBLZTN PDMAB	CARR JOHN	47013	T L		
UNK	2.00	X10 0 D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T L		
		1.029	X10-1 M					M	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives		Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
1.1	E 1 PH OF SOLUTION	5	1.03 X10-1 M	BC	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L
1.1	E 1 PH OF SOLUTION	20	1.03 X10-1 M	BC	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L
1.1	E 1 PH OF SOLUTION	60	1.03 X10-1 M	BC	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L
1.1	E 1 PH OF SOLUTION	90	1.03 X10-1 M	BC	SPECFC CONDUCTNCE GRAPH	MARK TSIK	64051	T	L
20 ENTRIES FOR COMPOUND									
COMPOUND NO = 300 MOL WGT -		278.4	SODIUM HEXADECANOATE						
		42004			VALUES FRM REF IN CMC	EKWA	40003		R
		50	2.1 X10-3 M	HC	SPECFC CONDUCTNCE GRAPH	MARO ELDE	54006	T	L
		52	3.2 X10-3 M	DD	EQUIV CONDUCTNCE GRAPH	EKWA	42004	K	L
		58	3.3 X10-3 M	DD	EQUIV CONDUCTNCE GRAPH	EKWA	42004	K	L
		60	3.0 X10-3 M	DC	PH OR HYDROLYSIS	STAU	39006	G	L
		60	2.5 X10-3 M	DC	PH OR HYDROLYSIS	STAU	39006	K	L
		60	4. X10-4 M	DE	FOTOMTR SOLUBLZTN OROT		48024	T	L
		67	3.3 X10-3 M	DD	EQUIV CONDUCTNCE GRAPH	EKWA	42004	K	L
		UNK	9. X10-2 D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
			3.2 X10-3 M						M
1.	E-1 H NA OH	70	3.9 X10-4 M	CC	SURFACE TENSION LOG PLOT	POWN ADDI	38006	K	L
1.	E-1 H NA OH	70	6.5 X10-4 M	CC	INTERFACIAL TENSION LOGM	POWN ADDI	38006	K	L
11 ENTRIES FOR COMPOUND									
COMPOUND NO = 301 MOL WGT -		348.4	SODIUM 3-N-DODECYL BENZENE SULFONATE						
		25	1.46 X10-3 M	FA	SPECFC CONDUCTNCE GRAPH	LU DL	56005	T	3
		30	1.46 X10-3 M	FA	SPECFC CONDUCTNCE GRAPH	LU DL	56005	T	L
2 ENTRIES FOR COMPOUND									
COMPOUND NO = 302 MOL WGT -		348.4	SODIUM 4-N-DODECYL BENZENE SULFONATE						
		25	1.59 X10-3 M	FA	SPECFC CONDUCTNCE GRAPH	LU DL	56005	T	3
		30	1.59 X10-3 M	FA	SPECFC CONDUCTNCE GRAPH	LU DL	56005	T	L
2 ENTRIES FOR COMPOUND									
COMPOUND NO = 303 MOL WGT -		245.4	DI-ISOPROPYLAMMONIUM CAPRYLATE						
		0	4.3 X10-1 M	DC	FREEZING POINT	GONI	46019	K	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 304 MOL WGT -		352.6	CATOL 607 (N-/LAURYL-COLAMINO-FORMYL-METHYL/-PYRIDINIUM CHLORIDE)						
		0	4.8 X10-3 W	DC	FREEZING POINT	MCBA BRAD	43006	P	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 305 MOL WGT -		320.6	POTASSIUM OLEATE/ CIS-9-OCTADECENOATE/						
		25	8. X10-4 M	XE	REFRACTIVE INDEX	KLEV	53010	T	L
		25	9.5 X10-4 M	XG	VISUAL SPCTR CHNGE	KLEV	53010	T	L
		25.8	1.0 X10-3 M	DG	FOTOMTR SPCTR CHNGE PNCN	CORR KLEV	46010	T	L
		30	6. X10-4 M	DE	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T	L
		30	48016		VALUES FRM REF IN CMC	KOLT STRI	49005		R
		50	1.2 X10-3 M	XE	REFRACTIVE INDEX	KLEV	53010	T	L
		50	1.3 X10-3 M	XG	VISUAL SPCTR CHNGE	KLEV	53010	T	L
		50	1.1 X10-3 M	DD	FOTOMTR SOLUBLZTN PDMAB	KOLT STRI	48016	T	L
8 ENTRIES FOR COMPOUND									
COMPOUND NO = 306 MOL WGT -		496.9	DECYL TRIMETHYLAMMONIUM SULFATE						
		UNK	5.03 X10-2 M	BC	METHOD NOT CITED	WASI HUBB	64043	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 307 MOL WGT -		553.0	DODECYL TRIMETHYLAMMONIUM SULFATE						
		25	1.64 X10-2 N	BA	EQUIV CONDUCTNCE GRAPH	VOEK TART	55006	T	L
		UNK	9.3 X10-3 M	BC	METHOD NOT CITED	WASI HUBB	64043	T	L
	E 0 NA2 SO4	UNK			QUESTIONABLE CRITERION	WASI HUBB	64043		R
3 ENTRIES FOR COMPOUND									
COMPOUND NO = 308 MOL WGT -		609.1	TETRADECYL TRIMETHYLAMMONIUM SULFATE						
		UNK	1.5 X10-3 M	BD	METHOD NOT CITED	WASI HUBB	64043	T	L
6.7	E-3 M LA2 (SO4)3	UNK	8.7 X10-4 M	BC	METHOD NOT CITED	WASI HUBB	64043	T	L
2.	E-2 M MG SO4	UNK	8.9 X10-4 M	BC	METHOD NOT CITED	WASI HUBB	64043	T	L
	E 0 NA2 SO4	UNK			QUESTIONABLE CRITERION	WASI HUBB	64043		R
4 ENTRIES FOR COMPOUND									

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values — Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 309 MOL WGT - E O NA2 SO4 1 ENTRIES FOR COMPOUND	665.2 UNK	HEXADECYL TRIMETHYLAMMONIUM SULFATE		QUESTIONABLE CRITERION	WASI HUBB	64043		R
COMPOUND NO = 310 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS 3 ENTRIES FOR COMPOUND	627.0 25 25 75	DODECYL/OXYETHYLENE/10 ALCOHOL	X10-2 P X10-3 D X10-3 D	HD HD HE	SURFACE TENSION LOG PLOT FOTOMTR SOLUBLZTN OROT METHOD NOT CITED	KOMO BEIS GINN KINN GINN HARR	66022 61015 61014	T L T L T L
COMPOUND NO = 311 MOL WGT - 1. E-2 M NA CL 3. E-2 M NA CL 3. E-2 M NA CL 1. E-1 M NA CL 1. E-1 M NA CL 3. E-1 M NA CL 3. E-1 M NA CL 9 ENTRIES FOR COMPOUND	274.3 21 21 21 21 21 21 21 21 21	SODIUM UNDECYL 1-SULFATE	X10-1 D X10-2 M X10-1 D X10-2 M X10-1 D X10-3 M X10-1 D X10-3 M X10-1 D X10-3 M X10-2 D X10-3 M X10-2 D X10-3 M	BB BB BB BB BB BB BB BB BB BB BC BC BC	TURBIDITY PLT LITE SCATR SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT TURBIDITY PLT LITE SCATR SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT TURBIDITY PLT LITE SCATR SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT TURBIDITY PLT LITE SCATR TURBIDITY PLT LITE SCATR	HUIS HUIS HUIS HUIS HUIS HUIS HUIS HUIS HUIS HUIS HUIS HUIS HUIS	64047 64047 64047 64047 64047 64047 64047 64047 64047 64047 64047 64047 64047	T 3 M T L M T L M T L M T L M T L M T 3 M
COMPOUND NO = 312 MOL WGT - BRANCHED CHAIN, REDUCED OE DISTRIBUTION 2 ENTRIES FOR COMPOUND	420.7 25.0 55.0	TRIDECYL/OXYETHYLENE/5 ALCOHOL	X10-4 M X10-5 M	EC EC	SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT	SCHI SCHI	62019 62019	T L T L
COMPOUND NO = 313 MOL WGT - BRANCHED CHAIN, REDUCED OE DISTRIBUTION 2 ENTRIES FOR COMPOUND	619.0 25.0 55.0	TRIDECYL/OXYETHYLENE/9.5 ALCOHOL	X10-4 M X10-5 M	EC EC	SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT	SCHI SCHI	62019 62019	T L T L
COMPOUND NO = 314 MOL WGT - BRANCHED CHAIN, REDUCED OE DISTRIBUTION 2 ENTRIES FOR COMPOUND	817.2 25.0 55.0	TRIDECYL/OXYETHYLENE/14 ALCOHOL	X10-4 M X10-5 M	EC EC	SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT	SCHI SCHI	62019 62019	T L T L
COMPOUND NO = 315 MOL WGT - BRANCHED CHAIN, REDUCED OE DISTRIBUTION 2 ENTRIES FOR COMPOUND	1,081.6 25.0 55.0	TRIDECYL/OXYETHYLENE/20 ALCOHOL	X10-4 M X10-5 M	EC EC	SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT	SCHI SCHI	62019 62019	T L T L
COMPOUND NO = 316 MOL WGT - BRANCHED CHAIN, REDUCED OE DISTRIBUTION 2 ENTRIES FOR COMPOUND	1,522.2 25.0 55.0	TRIDECYL/OXYETHYLENE/30 ALCOHOL	X10-4 M X10-4 M	EC EC	SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT	SCHI SCHI	62019 62019	T L T L

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; D - wt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/kg; T - wt % surfactant mixture; U - mol/l or kg; W - molal; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 317 MOL WGT -	647.0	T-OCTYL BENZENE/OXYETHYLENE/10	ALCOHOL					
REDUCED POLYDISPERSITY OF HEAD GROUPS								
	25.0	1.00 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
	55.0	6.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 318 MOL WGT -	1,087.6	T-OCTYL BENZENE/OXYETHYLENE/20	ALCOHOL					
REDUCED POLYDISPERSITY OF HEAD GROUPS								
	25.0	1.30 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
	55.0	7.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 319 MOL WGT -	1,528.2	T-OCTYL BENZENE/OXYETHYLENE/30	ALCOHOL					
REDUCED POLYDISPERSITY OF HEAD GROUPS								
	25.0	1.60 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
	55.0	9.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 320 MOL WGT -	661.0	NONYL BENZENE/OXYETHYLENE/10	ALCOHOL					
BRANCHED CHAIN, REDUCED OE DISTRIBUTION								
	62019			VALUES FRM REF IN CMC	SCHI GILB	65011		R
	62019			VALUES FRM REF IN CMC	SCHI ATLA	62020		R
	25.0	7.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
	55.0	4.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
1.5 E O M	25.0	1.00 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
3.0 E O M	25.0	1.80 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
3. E O M	25.0	1.00 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
6. E O M	25.0	2.40 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
3. E O M	25.0	1.40 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
4.6 E O				PH OF SOLUTION				
5. E O M	25.0	2.50 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
4.6 E O				PH OF SOLUTION				
E O	25.0	7.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
4.6 E O				PH OF SOLUTION				
11 ENTRIES FOR COMPOUND								
COMPOUND NO = 321 MOL WGT -	881.3	NONYL BENZENE/OXYETHYLENE/15	ALCOHOL					
BRANCHED CHAIN, REDUCED OE DISTRIBUTION								
	62019			VALUES FRM REF IN CMC	SCHI ATLA	62020		R
	25.0	1.10 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
	55.0	4.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
0.0 E-1 N	25.0	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 N	25.0	5.7 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 N	25.0	7.6 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	1.50 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	5.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	6.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	8.7 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 N	25.0	5.3 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 N	25.0	7.6 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	5.2 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 N	25.0	2.5 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
4.3 E-1 M	25.0	6.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	L	L
8.6 E-1 M	25.0	5.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
1.29 E O M	25.0	4.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	L	L
8.6 E-1 M	25.0	3.2 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	8.3 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	8.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 N	25.0	2.3 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	8.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
6.6 E-1 N	25.0	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6 E-1 M	25.0	4.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
5. E-1 M	25.0	9.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI ATLA	62020	T	L
8.6 E-1 N	25.0	4.2 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
4.3 E-1 M				NA CNS				
29 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives			Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 322 MOL WGT = 1,101.6 NONYL BENZENE/OXYETHYLENE/20 ALCOHOL										
BRANCHED CHAIN, REDUCED OE DISTRIBUTION										
			62019			VALUES FRM REF IN CMC	SCHI GILB	65011		R
			62019			VALUES FRM REF IN CMC	SCHI ATLA	62020		R
			25.0	1.40 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
			55.0	6.0 X10 ⁻⁵ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
1.5	E O M	DIOXANE	25.0	2.40 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
3.0	E O M	DIOXANE	25.0	3.90 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
3.	E O M	UREA	25.0	1.80 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
6.	E O M	UREA	25.0	4.75 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
3.	E O M	GUANIDINIUM CL	25.0	1.80 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
4.6 E O PH OF SOLUTION										
5.	E O M	GUANIDINIUM CL	25.0	5.60 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
4.6 E O PH OF SOLUTION										
E O H CL			25.0	1.40 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
4.6 E O PH OF SOLUTION										
11 ENTRIES FOR COMPOUND										
COMPOUND NO = 323 MOL WGT = 1,542.2 NONYL BENZENE/OXYETHYLENE/30 ALCOHOL										
BRANCHED CHAIN, REDUCED OE DISTRIBUTION										
			62019			VALUES FRM REF IN CMC	SCHI GILB	65011		R
			62019			VALUES FRM REF IN CMC	SCHI ATLA	62020		R
			25.0	1.85 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
			55.0	8.0 X10 ⁻⁵ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
1.5	E O M	DIOXANE	25.0	2.60 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
3.0	E O M	DIOXANE	25.0	5.70 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
3.	E O M	UREA	25.0	3.50 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
6.	E O M	UREA	25.0	7.40 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
3.	E O M	GUANIDINIUM CL	25.0	4.25 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
4.6 E O PH OF SOLUTION										
5.	E O M	GUANIDINIUM CL	25.0	9.60 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
4.6 E O PH OF SOLUTION										
E O H CL			25.0	1.85 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI GILB	65011	T	L
4.6 E O PH OF SOLUTION										
11 ENTRIES FOR COMPOUND										
COMPOUND NO = 324 MOL WGT = 2,423.4 NONYL BENZENE/OXYETHYLENE/50 ALCOHOL										
BRANCHED CHAIN, REDUCED OE DISTRIBUTION										
			62019			VALUES FRM REF IN CMC	SCHI ATLA	62020		R
			25.0	2.80 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
			55.0	1.50 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6	E-1 M	LI CL	25.0	2.00 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
4.3	E-1 M	NA CL	25.0	2.00 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6	E-1 M	NA CL	25.0	1.50 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
1.29	E O M	NA CL	25.0	1.00 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6	E-1 N	NA2 SO4	25.0	7. X10 ⁻⁶ M	PE	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6	E-1 M	NA CNS	25.0	2.25 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
8.6	E-1 M	(CH3)4 N CL	25.0	1.00 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
10 ENTRIES FOR COMPOUND										
COMPOUND NO = 325 MOL WGT = 362.6 DODECYL/OXYETHYLENE/4 ALCOHOL										
REDUCED POLYDISPERSITY OF HEAD GROUPS										
			05.0	7.8 X10 ⁻⁵ M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
			25.0	4.0 X10 ⁻⁵ M	EC	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
			25.0	4.0 X10 ⁻⁵ M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
			25.0	4.0 X10 ⁻⁵ M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
			45.0	2.2 X10 ⁻⁵ M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
			55.0	1.7 X10 ⁻⁵ M	ED	SURFACE TENSION LOG PLOT	SCHI	62019	T	L
2.5	E 1 I	0001	05.0	1.1 X10 ⁻⁴ M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
5.0	E 1 I	0001	05.0	1.8 X10 ⁻⁴ M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
7.5	E 1 I	0001	05.0	3.5 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
9.0	E 1 I	0001	05.0	5.5 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
2.5	E 1 I	0001	25.0	8.5 X10 ⁻⁵ M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
5.0	E 1 I	0001	25.0	1.4 X10 ⁻⁴ M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
7.5	E 1 I	0001	25.0	2.8 X10 ⁻⁴ M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
9.0	E 1 I	0001	25.0	5.0 X10 ⁻⁴ M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
2.5	E 1 I	0001	45.0	5.0 X10 ⁻⁵ M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L
5.0	E 1 I	0001	45.0	9.0 X10 ⁻⁵ M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.
 D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

Complete Table of Critical Micelle Concentration Values - Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
7.5 E I I 0001	45.0	1.4 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
9.0 E I I 0001	45.0	3.0 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
	25			SEE CMPD NMBR IN ADDITV	SCHI	66025		X
19 ENTRIES FOR COMPOUND								
COMPOUND NO = 326 MOL WGT - 803.2 DODECYL/OXYETHYLENE/14 ALCOHOL								
REDUCED POLYDISPERSITY OF HEAD GROUPS								
		62019		VALUES FRM REF IN CMC	SCHI ATLA	62020		R
	25.0	5.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T L	
	55.0	2.5 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 327 MOL WGT - 1,199.8 DODECYL/OXYETHYLENE/23 ALCOHOL								
REDUCED POLYDISPERSITY OF HEAD GROUPS								
		62019		VALUES FRM REF IN CMC	SCHI ATLA	62020		R
	05.0	1.0 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
	25	6.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	66025	L L	
	25.0	6.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T L	
	25.0	6.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
	45.0	3.6 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
	55.0	3.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T L	
9.0 E O C 0001	05.0	8.0 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
2.5 E I I 0001	05.0	1.0 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
5.0 E I I 0001	05.0	1.2 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
7.5 E I I 0001	05.0	3.2 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
7.5 E O C 0001	25.0	1.6 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
9.0 E O C 0001	25.0	4.8 X10-4 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
2.5 E I I 0001	25.0	6.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
5.0 E I I 0001	25.0	7.6 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
7.5 E O C 0001	45.0	7.1 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
9.0 E O C 0001	45.0	2.2 X10-4 M	ED	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
2.5 E I I 0001	45.0	3.6 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
5.0 E I I 0001	45.0	5.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI MANN	66001	L L	
	25			SEE CMPD NMBR IN ADDITV	SCHI	66025		X
20 ENTRIES FOR COMPOUND								
COMPOUND NO = 328 MOL WGT - 887.4 OCTADECYL/OXYETHYLENE/14 ALCOHOL								
REDUCED POLYDISPERSITY OF HEAD GROUPS								
		62019		VALUES FRM REF IN CMC	SCHI ATLA	62020		R
	25.0	6.0 X10-5 M	EC	SURFACE TENSION LOG PLOT	SCHI	62019	T L	
	55.0	2.0 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI	62019	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 329 MOL WGT - 4,676.6 OCTADECYL/OXYETHYLENE/100 ALCOHOL								
REDUCED POLYDISPERSITY OF HEAD GROUPS								
		62019		VALUES FRM REF IN CMC	SCHI ATLA	62020		R
	25.0	2.0 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI	62019	T L	
8.6 E-1 M NA CL	25.0	2.0 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI ATLA	62020	T L	
1.29 E O M NA CL	25.0	2.0 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI ATLA	62020	T L	
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 330 MOL WGT - 550.9 HEXADECYL/OXYETHYLENE/7 ALCOHOL								
HOMOGENEOUS HEAD GROUP								
	25	1.74 X10-6 M	BC	SURFACE TENSION LOG PLOT	ELWO MACF	62027	T 3	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 331 MOL WGT - 639.0 HEXADECYL/OXYETHYLENE/9 ALCOHOL								
HOMOGENEOUS HEAD GROUP								
	18	8.0 X10-6 M	CG	FLOCCULATION RATE	MATH OTTE	66037	T L	
	20	3.6 X10-5 M	BE	SURFACE TENSION LOG PLOT	CARL CHAL	64009	T L	
	20	3.5 X10-5 M	BG	FOTOMTR SPCTR CHNG I2	CARL CHAL	64009	T L	
	25	2.09 X10-6 M	BC	SURFACE TENSION LOG PLOT	ELWO MACF	62027	T 3	
4 ENTRIES FOR COMPOUND								

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/dwt/vol %; E - % saturation; H - wt % solvent; I - mol % surfactant; K - normality; kg; T - wt % surfactant mixture; U - mol/d or kg; W - molal; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values — Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 332 MOL WGT - HOMOGENEOUS HEAD GROUP	771.2	HEXADECYL/OXYETHYLENE/12 ALCOHOL						
1 ENTRIES FOR COMPOUND	25	2.34 X10-6 M	BC	SURFACE TENSION LOG PLOT	ELWO MACF	62027	T	3
COMPOUND NO = 333 MOL WGT - HOMOGENEOUS HEAD GROUP	903.4	HEXADECYL/OXYETHYLENE/15 ALCOHOL						
1 ENTRIES FOR COMPOUND	25	3.09 X10-6 M	BC	SURFACE TENSION LOG PLOT	ELWO MACF	62027	T	3
COMPOUND NO = 334 MOL WGT - HOMOGENEOUS HEAD GROUP	1,167.8	HEXADECYL/OXYETHYLENE/21 ALCOHOL						
1 ENTRIES FOR COMPOUND	25	3.89 X10-6 M	BC	SURFACE TENSION LOG PLOT	ELWO MACF	62027	T	3
COMPOUND NO = 335 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	580.9	OCTYL BENZENE/OXYETHYLENE/8.5 ALCOHOL						
1 ENTRIES FOR COMPOUND	25	2.05 X10-4 M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T	L
COMPOUND NO = 336 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	639.0	NONYL BENZENE/OXYETHYLENE/9.5 ALCOHOL						
2 ENTRIES FOR COMPOUND	25	9.3 X10-3 P	HD	SURFACE TENSION LOG PLOT	KOMO REIS	66022	T	L
	25	8.5 X10-5 M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T	L
COMPOUND NO = 337 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	683.0	NONYL BENZENE/OXYETHYLENE/10.5 ALCOHOL						
8.6 E-1 M NA CL	25	8.3 X10-5 M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T	L
5.0 E-1 C 0168	25	4.6 X10-5 M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T	L
5.0 E-1 C 0169	25	9.5 X10-5 M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T	L
4 ENTRIES FOR COMPOUND	25	1.30 X10-4 M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T	L
COMPOUND NO = 338 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	4,626.4	NONYL BENZENE/OXYETHYLENE/100 ALCOHOL						
1 ENTRIES FOR COMPOUND	25	1.00 X10-3 M	HD	SURFACE TENSION LOG PLOT	HSIA DUNN	56014	T	L
COMPOUND NO = 339 MOL WGT - MAGNESIUM HEXANE SULFONATE	354.7							
1 ENTRIES FOR COMPOUND	25	6.3 X10-1 N	CG	VISUAL SPCTR CHNGE PNCN	LELO TART	51003	L	L
COMPOUND NO = 340 MOL WGT - MAGNESIUM OCTANE SULFONATE	410.8							
	23	1.10 X10-1 N	CB	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T	3
	25	1.1 X10-1 N	CD	SPECFC CONDUCTNCE GRAPH	LELO TART	51003	L	L
3 ENTRIES FOR COMPOUND	60	1.1 X10-1 N	CD	SPECFC CONDUCTNCE GRAPH	LELO TART	51003	L	L
COMPOUND NO = 341 MOL WGT - MAGNESIUM DECANE SULFONATE	466.9							
	60	2.0 X10-2 N	CC	SPECFC CONDUCTNCE GRAPH	LELO TART	51003	L	3
	60	2.0 X10-2 N	CC	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T	L
3 ENTRIES FOR COMPOUND	80	2.5 X10-2 N	CC	SPECFC CONDUCTNCE GRAPH	LELO TART	51003	L	L
COMPOUND NO = 342 MOL WGT - MAGNESIUM DODECANE SULFONATE	523.1							
	60	3.6 X10-3 N	CB	SPECFC CONDUCTNCE GRAPH	LELO TART	51003	L	3
	60	3.3 X10-3 N	CC	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T	L
3 ENTRIES FOR COMPOUND	80	4.9 X10-3 N	CB	SPECFC CONDUCTNCE GRAPH	LELO TART	51003	L	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 343 MOL WGT -	174.2	SODIUM PENTANE SULFONATE						
1 ENTRIES FOR COMPOUND	25 9.9	X10-1 M	CD	METHOD NOT CITED	LELO TART	51003	L	L
COMPOUND NO = 344 MOL WGT -	188.2	SODIUM HEXANE SULFONATE						
1 ENTRIES FOR COMPOUND	25 4.6	X10-1 M	CG	VISUAL SPCTR CHNGE PNCN	LELO TART	51003	L	L
COMPOUND NO = 345 MOL WGT -	418.3	DIDODECYL DIMETHYLAMMONIUM CHLORIDE						
3. E-3 N NA CL	1.	X10-4 N	CE	UNSPECIFIED CONDUCTANCE	TART LELO	55021	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 346 MOL WGT -	437.8	DECYL TRIMETHYLAMMONIUM DECYL SULFATE						
	63014			VALUES FRM REF IN CMC	CORK GOOD	65005		R
	25 4.6	X10-4 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	63014	L	3
	25 4.5	X10-4 M	BC	METHOD NOT CITED	CORK GOOD	66014	T	L
1.00 E 2 I NA BR	25 4.6	X10-4 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	63014	L	3
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 347 MOL WGT -	381.6	OCTYL TRIMETHYLAMMONIUM OCTYL SULFATE						
	25 7.5	X10-3 M	BC	METHOD NOT CITED	CORK GOOD	66014	T	L
1.00 E 2 I NA BR	25 7.5	X10-3 M	BB	SURFACE TENSION LOG PLOT	CORK GOOD	65005	T	3
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 348 MOL WGT -	443.2	NN-DIMETHYL 1-1-DIHYDRO-PENTADECAFLUORO OCTYL AMINE N-OXIDE /C7F15CH2N/CH3/20/						
1 ENTRIES FOR COMPOUND	25 4.7	X10-4 M	DB	SURFACE TENSION LOG PLOT	CORK GOOD	65005	T	3
COMPOUND NO = 349 MOL WGT -	356.5	SODIUM OCTADECANE 1-SULFONATE						
1 ENTRIES FOR COMPOUND	57.0 7.5	X10-4 W	DB	KRAFFT POINT SOLUBILITY	TART WRIG	39002	T	L
COMPOUND NO = 350 MOL WGT -	196.4	POTASSIUM NONANOATE						
	25 2.1	X10-1 M	DG	FOTOMTR SPCTR CHNGE PNCN	HERZ	52015	T	L
	25 2.01	X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
	25 2.00	X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
	25 2.0	X10-1 M	BG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L
3.7 E-2 M K CL	25 1.87	X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
8.7 E-2 M K CL	25 1.75	X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
1.59 E-1 M K CL	25 1.59	X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
2.78 E-1 M K CL	25 1.39	X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
4.61 E-1 M K CL	25 1.15	X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
6.77 E-1 M K CL	25 9.7	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
8.55 E-1 M K CL	25 8.6	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
1.29 E 0 M K CL	25 6.4	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
1.63 E 0 M K CL	25 5.4	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
1.92 E 0 M K CL	25 4.8	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	TA	L
2.11 E 0 M K CL	25 4.2	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
2.39 E 0 M K CL	25 4.0	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
2.64 E 0 M K CL	25 3.8	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
17 ENTRIES FOR COMPOUND								
COMPOUND NO = 351 MOL WGT -	252.5	POTASSIUM TRIDECANOATE						
	25 1.26	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52015	T	L
	25 1.2	X10-2 M	BG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L
	25 1.26	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
1.34 E-3 M K CL	25 1.21	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
2.91 E-3 M K CL	25 1.16	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
4.78 E-3 M K CL	25 1.12	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
7.06 E-3 M K CL	25 1.06	X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
9.29 E-3 M K CL	25 9.29	X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
1.34 E-2 M K CL	25 8.92	X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
1.56 E-2 M K CL	25 8.42	X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
1.87 E-2 M K CL	25 8.00	X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
2.51 E-2 M K CL	25 7.17	X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
2.76 E-2 M K CL	25 6.90	X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L
3.27 E-2 M K CL	25 6.54	X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/ D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
4.11 E-2 M K CL	25	5.87 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
5.29 E-2 M K CL	25	5.29 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
6.16 E-2 M K CL	25	4.92 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
9.13 E-2 M K CL	25	4.06 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
1.16 E-1 M K CL	25	3.57 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
1.44 E-1 M K CL	25	3.19 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
1.69 E-1 M K CL	25	2.94 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
1.94 E-1 M K CL	25	2.77 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
2.16 E-1 M K CL	25	2.62 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
2.41 E-1 M K CL	25	2.53 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
2.68 E-1 M K CL	25	2.38 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
3.12 E-1 M K CL	25	2.27 X10-3 M	DG	VISUAL SPCTR CHNGE PNCN	HERZ	52017	T L
26 ENTRIES FOR COMPOUND							
COMPOUND NO = 352 MOL WGT -		388.4	SODIUM DI-1-METHYLISOAMYL SULFOSUCCINATE				
	25	3. X10-2 N	HE	UNSPECIFIED CONDUCTANCE	HAFF PICC	42003	T L
1 ENTRIES FOR COMPOUND							
COMPOUND NO = 353 MOL WGT -		393.7	OCTYL TRIMETHYLAMMONIUM DECANE SULFONATE				
	RM	5.75 X10-3 M	BB	DEBYE PLT LIGHT SCATTER	ANAC	53002	T 3
	RM	5.67 X10-3 M	BB	DEBYE PLT LIGHT SCATTER	ANAC	53002	T 3
	RM	5.67 X10-3 M	BB	DEBYE PLT LIGHT SCATTER	ANAC	53002	T 3
3 ENTRIES FOR COMPOUND							
COMPOUND NO = 354 MOL WGT -		255.9	HEXYL BENZYL DIMETHYLAMMONIUM CHLORIDE				
	UNK	4.34 X10-2 M	PG	VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
1 ENTRIES FOR COMPOUND							
COMPOUND NO = 355 MOL WGT -		363.1	AMMONIUM DODECAFLUOROHEPTANOATE	H/CF2/6COONH4			
	UNK	2.5 X10-1 M	CG	METHOD NOT CITED	ARRI PATT	53003	T L
1 ENTRIES FOR COMPOUND							
COMPOUND NO = 356 MOL WGT -		312.0	DECYL BENZYL DIMETHYLAMMONIUM CHLORIDE				
	UNK	6.1 X10-3 M	PG	VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
1 ENTRIES FOR COMPOUND							
COMPOUND NO = 357 MOL WGT -		368.1	TETRADECYL BENZYL DIMETHYLAMMONIUM CHLORIDE				
	UNK	3.7 X10-4 M	PG	VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
1 ENTRIES FOR COMPOUND							
COMPOUND NO = 358 MOL WGT -		424.2	OCTADECYL BENZYL DIMETHYLAMMONIUM CHLORIDE				
	23	8.5 X10-6 M	HG	STREAMING CURRENT	CARD	66011	T L
	UNK	7.1 X10-6 M	PG	VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
2 ENTRIES FOR COMPOUND							
COMPOUND NO = 359 MOL WGT -		328.9	OCTYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE				
	UNK	5.7 X10-2 M	PG	VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
1 ENTRIES FOR COMPOUND							
COMPOUND NO = 360 MOL WGT -		357.0	DECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE				
	UNK	2.3 X10-2 M	PG	VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
1 ENTRIES FOR COMPOUND							
COMPOUND NO = 361 MOL WGT -		385.0	DODECYL 4-NITROBENZYL DIMETHYL AMMONIUM CHLORIDE				
	UNK	3.6 X10-3 M	PG	VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
1 ENTRIES FOR COMPOUND							
COMPOUND NO = 362 MOL WGT -		413.1	TETRADECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE				
	UNK	5.1 X10-4 M	PG	VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
1 ENTRIES FOR COMPOUND							
COMPOUND NO = 363 MOL WGT -		441.2	HEXADECYL 4-NITROBENZYL DIMETHYLAMMONIUM CHLORIDE				
	UNK	1.3 X10-4 M	PG	VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
1 ENTRIES FOR COMPOUND							

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
COMPOUND NO = 364 MOL WGT - 1 ENTRIES FOR COMPOUND	469.2 UNK 2.9	OCTADECYL X10-5 M	4-NITROBENZYL PG	DIMETHYLAMMONIUM CHLORIDE VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
COMPOUND NO = 365 MOL WGT - 1 ENTRIES FOR COMPOUND	374.5 UNK 2.8	DODECYL X10-4 M	2-CHLOROBENZYL PG	DIMETHYLAMMONIUM CHLORIDE VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
COMPOUND NO = 366 MOL WGT - 1 ENTRIES FOR COMPOUND	408.9 UNK 3.7	DODECYL X10-4 M	2-4-DICHLOROBENZYL PG	DIMETHYLAMMONIUMCHLORIDE VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
COMPOUND NO = 367 MOL WGT - 1 ENTRIES FOR COMPOUND	374.5 UNK 4.2	DODECYL X10-4 M	4-CHLOROBENZYL PG	DIMETHYLAMMONIUM CHLORIDE VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
COMPOUND NO = 368 MOL WGT - 1 ENTRIES FOR COMPOUND	401.0 UNK 6.9	DODECYL X10-4 M	2-HYDROXY-5-NITROBENZYL PG	DIMETHYLAMMONIUM CHLORIDE VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
COMPOUND NO = 369 MOL WGT - 1 ENTRIES FOR COMPOUND	408.9 UNK 1.1	DODECYL X10-3 M	3-4-DICHLOROBENZYL PG	DIMETHYLAMMONIUMCHLORIDE VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
COMPOUND NO = 370 MOL WGT - 1 ENTRIES FOR COMPOUND	384.1 UNK 3.8	DODECYL X10-3 M	3-4-METHYLENEDIOXYBENZYL PG	DIMETHYLAMMONIUM CHLORIDE VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
COMPOUND NO = 371 MOL WGT - 1 ENTRIES FOR COMPOUND	400.1 UNK 3.9	DODECYL X10-3 M	3-4-DIMETHOXYBENZYL PG	DIMETHYLAMMONIUMCHLORIDE VISUAL SPCTR CHNGE INPX	ROSS KWAR	53007	T L
COMPOUND NO = 372 MOL WGT - 0092 2 ENTRIES FOR COMPOUND	463.1 UNK 3.8	AMMONIUM X10-2 M	HEXADECAFLUORONONANOATE CG	H/CF2/8 C00 NH4 METHOD NOT CITED SEE CMPD NMBR IN ADDITV	ARRI PATT ARRI PATT	53003 53003	T L X
COMPOUND NO = 373 MOL WGT - 1 ENTRIES FOR COMPOUND	563.2 UNK 9.	AMMONIUM X10-3 M	EICOSAFLUOROUNDECANOATE CG	H/CF2/10 C00 NH4 METHOD NOT CITED	ARRI PATT	53003	T L
COMPOUND NO = 374 MOL WGT - 2 ENTRIES FOR COMPOUND	346.1 25 1.5 UNK 1.5	DODECAFLUROHEPTANOIC ACID X10-1 M X10-1 M	H/CF2/6C00H HG CG	UNSPEC SPCTR CHNG PNCN METHOD NOT CITED	KLEV ARRI PATT	58011 53003	T L T L
COMPOUND NO = 375 MOL WGT - 2 ENTRIES FOR COMPOUND	446.1 25 3. UNK 3.	HEXADECAFLUORONONANOIC ACID X10-2 M X10-2 M	H/CF2/8C00H HG CG	UNSPEC SPCTR CHNG PNCN METHOD NOT CITED	KLEV ARRI PATT	58011 53003	T L T L
COMPOUND NO = 376 MOL WGT -	375.4 60015	DODECYL X10-3 M	PYRIDINIUM IODIDE BC	VALUES FRM REF IN CMC KRAFFT POINT SOLUBILITY	FORD OTTE ADDI FURM	66028 56019	R T L
	18.0 4.1	X10-3 M	BC	INTERFACIAL TNSN UNSPEC	ADDI FURM	56019	T L
	20.3 5.10	X10-3 M	CB	MICELLAR SPECTRAL CHANGE	MUKE RAY	66006	T L
	24.9 5.26	X10-3 M	CB	MICELLAR SPECTRAL CHANGE	MUKE RAY	66006	T 3
	25 5.60	X10-3 M	DC	TURBIDITY PLT LITE SCATR	PARR	60015	T 3
	25 5.70	X10-3 M	CB	SURFACE TENSION UNSPEC	FORD OTTE	66028	T 3
	25 5.26	X10-3 M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T L
	30 5.0	X10-3 M	CG	FOTOMTR SPCTR CHNGE EOSN	MEGU KOND	59024	T L
	30 4.5	X10-3 M	CA	SPECFC CONDUCTNCE GRAPH	MEGU KOND	59024	T L
	30.1 5.60	X10-3 M	CB	MICELLAR SPECTRAL CHANGE	MUKE RAY	66006	T L
	34.9 5.85	X10-3 M	CB	MICELLAR SPECTRAL CHANGE	MUKE RAY	66006	T L
	40.0 6.30	X10 3 M	CB	MICELLAR SPECTRAL CHANGE	MUKE RAY	66006	T L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
	44.9	6.70 X10 ⁻³ M	CB	MICELLAR SPECTRAL CHANGE	MUKE RAY	66006	T	L
	45	6.70 X10 ⁻³ M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
	RM	5.0 X10 ⁻³ M	CC	MICELLAR SPECTRAL CHANGE	HARK DRIZ	51010	T	L
	RM	5.3 X10 ⁻³ M	CG	VISUAL SPCTR CHNGE SKYB	HARK DRIZ	51010	T	L
	RM	5.6 X10 ⁻³ M	CC	FOTOMTR SOLUBLZTN OROT	HARK DRIZ	51010	T	L
2.5 E-3 M K I	25	4.53 X10 ⁻³ M	DC	TURBIDITY PLT LITE SCATR	PARR	60015	T	L
5.0 E-3 M K I	25	3.87 X10 ⁻³ M	DC	TURBIDITY PLT LITE SCATR	PARR	60015	T	L
1.00 E-2 M K I	25	2.94 X10 ⁻³ M	DC	TURBIDITY PLT LITE SCATR	PARR	60015	T	L
2. E-2 M K I	25	1.80 X10 ⁻³ M	CB	SURFACE TENSION UNSPEC	FORD OTTE	66028	T	L
2.02 E-2 M K I	30	1.94 X10 ⁻³ M	CB	MICELLAR SPECTRAL CHANGE	MUKE RAY	66006	T	L
5.01 E-2 M K I	30	1.12 X10 ⁻³ M	CB	MICELLAR SPECTRAL CHANGE	MUKE RAY	66006	T	L
1.002E-1 M K I	30	6.5 X10 ⁻⁴ M	CB	MICELLAR SPECTRAL CHANGE	MUKE RAY	66006	T	L
1. E-4 M NA2 S203 THIOSULF	25	5.15 X10 ⁻³ M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
1. E-3 M NA2 S203 THIOSULF	25	4.75 X10 ⁻³ M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
1. E-3 M NA2 S203 THIOSULF	45	5.63 X10 ⁻³ M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
3.4 E 0 M UREA	25	9.34 X10 ⁻³ M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
5.9 E 0 M UREA	25	1.36 X10 ⁻² M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
3.4 E 0 M UREA	45	1.18 X10 ⁻² M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
5.9 E 0 M UREA	45	1.71 X10 ⁻² M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
8.0 E 0 M UREA	45	2.13 X10 ⁻² M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
1. E-4 M NA2 S203 THIOSULF	25	9.30 X10 ⁻³ M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
3.4 E 0 M UREA								
1. E-4 M NA2 S203 THIOSULF	25	1.39 X10 ⁻² M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
5.9 E 0 M UREA								
1. E-3 M NA2 S203 THIOSULF	25	5.75 X10 ⁻³ M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
9.6 E-1 M UREA								
1. E-3 M NA2 S203 THIOSULF	25	9.10 X10 ⁻³ M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
3.4 E 0 M UREA								
1. E-3 M NA2 S203 THIOSULF	25	1.33 X10 ⁻² M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
5.9 E 0 M UREA								
1. E-3 M NA2 S203 THIOSULF	45	7.10 X10 ⁻³ M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
9.6 E-1 M UREA								
1. E-3 M NA2 S203 THIOSULF	45	1.10 X10 ⁻² M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
3.4 E 0 M UREA								
1. E-3 M NA2 S203 THIOSULF	45	1.57 X10 ⁻² M	DB	MICELLAR SPECTRAL CHANGE	MUKE RAY	63032	T	L
5.9 E 0 M UREA								
41 ENTRIES FOR COMPOUND								
COMPOUND NO = 377 MOL WGT -		406.7	DODECYL/OXYETHYLENE/ 5 ALCOHOL					
HOMOGENEOUS HEAD GROUP								
	20	4.0 X10 ⁻⁵ M	BD	SURFACE TENSION LOG PLOT	CARL CHAL	64009	T	L
	20	3.5 X10 ⁻⁵ M	BD	FOTOMTR SPCTR CHNG I2	CARL CHAL	64009	T	L
	20	5.00 X10 ⁻⁵ M	BD	REFRACTIVE INDEX	DONB JAN	63021	T	L
	23	5.7 X10 ⁻⁵ M	PB	SURFACE TENSION LOG PLOT	LANG	60012	T	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 378 MOL WGT -		378.6	DECYL/OXYETHYLENE/5 ALCOHOL					
HOMOGENEOUS HEAD GROUP								
	20	8.6 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CARL CHAL	64009	T	L
	20	1.0 X10 ⁻³ M	BC	FOTOMTR SPCTR CHNG I2	CARL CHAL	64009	T	L
	20	7.8 X10 ⁻⁴ M	BC	REFRACTIVE INDEX	DONB JAN	63021	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 379 MOL WGT -		334.6	DECYL/OXYETHYLENE/4 ALCOHOL					
HOMOGENEOUS HEAD GROUP								
	16	4.2 X10 ⁻⁴ M	BC	FOTOMTR SPCTR CHNG I2	CARL CHAL	64009	T	L
	20	6.4 X10 ⁻⁴ M	BC	SURFACE TENSION LOG PLOT	CARL CHAL	64009	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 380 MOL WGT -		278.4	HEXYL/OXYETHYLENE/4 ALCOHOL					
HOMOGENEOUS HEAD GROUP								
	20	9. X10 ⁻² M	BD	SURFACE TENSION LOG PLOT	CARL CHAL	64009	T	L
	20	9. X10 ⁻² M	BD	FOTOMTR SPCTR CHNG I2	CARL CHAL	64009	T	L
	20	9.0 X10 ⁻² M	BB	REFRACTIVE INDEX	DONB JAN	63021	T	3
	20	7.5 X10 ⁻² M	BE	SURFACE TENSION LOG PLOT	MULL METC	62015	T	L
4 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; F—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/l (or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 381 MOL WGT - HOMOGENEOUS HEAD GROUP	322.5	HEXYL/OXYETHYLENE/5 ALCOHOL						
	20	9.25 X10-2 M	BB	REFRACTIVE INDEX	DONB JAN	63021	T	3
	20	7.5 X10-2 M	BE	SURFACE TENSION LOG PLOT	MULL METC	62015	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 382 MOL WGT -	353.6	ETHYL TRIMETHYLAMMONIUM DODECYL SULFATE						
	25	4.30 X10-3 M	DA	SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 383 MOL WGT -	381.6	BUTYL TRIMETHYLAMMONIUM DODECYL SULFATE						
	25	2.38 X10-3 M	DA	SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 384 MOL WGT -	409.7	HEXYL TRIMETHYLAMMONIUM DODECYL SULFATE						
	25	1.25 X10-3 M	DB	SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 385 MOL WGT -	437.8	OCTYL TRIMETHYLAMMONIUM DODECYL SULFATE						
	25	4.3 X10-4 M	BC	METHOD NOT CITED	CORK GOOD	66014	T	3
	25	4.0 X10-4 M	DB	SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 386 MOL WGT -	283.4	AMMONIUM DODECYL SULFATE						
	25	6.16 X10-3 M	DA	SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T	L
	30	7.2 X10-3 M	CB	EQUIV CONDUCTNCE GRAPH	MEGU KOND	59026	T	L
	30	6.6 X10-3 M	CG	FOTOMTR SPCTR CHNGE RHDG	MEGU KOND	59026	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 387 MOL WGT -	297.5	METHYLAMMONIUM DODECYL SULFATE						
	25	5.70 X10-3 M	DA	SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 388 MOL WGT -	311.5	ETHYLAMMONIUM DODECYL SULFATE						
	25	5.00 X10-3 M	DA	SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 389 MOL WGT -	339.5	BUTYLAMMONIUM DODECYL SULFATE						
	25	2.92 X10-3 M	DA	SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 390 MOL WGT -	367.6	HEXYLAMMONIUM DODECYL SULFATE						
	25	1.12 X10-3 M	DB	SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 391 MOL WGT -	395.7	OCTYLAMMONIUM DODECYL SULFATE						
	25	2.8 X10-4 M	DC	SPECFC CONDUCTNCE GRAPH	PACK DONB	63030	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 392 MOL WGT -	165.7	OCTYLAMMONIUM CHLORIDE						
	25	1.75 X10-1 M	XC	REFRACTIVE INDEX	KLEV	53010	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 393 MOL WGT - HOMOGENEOUS HEAD GROUP	338.5	BUTYL/OXYETHYLENE/6 ALCOHOL						
	20	7.96 X10-1 M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3
	30	7.60 X10-1 M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3
	40	7.10 X10-1 M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 394 MOL WGT - HOMOGENEOUS HEAD GROUP	338.5	I-METHYL PROPYL/OXYETHYLENE/6 ALCOHOL						
	20	9.1 X10-1 M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
	30	8.8 X10 ⁻¹ M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3
	40	8.5 X10 ⁻¹ M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 395 MOL WGT - HOMOGENEOUS HEAD GROUP	366.6	2-ETHYL BUTYL/OXYETHYLENE/6 ALCOHOL						
	20	1.00 X10 ⁻¹ M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3
	30	9.3 X10 ⁻² M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3
	40	8.7 X10 ⁻² M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 396 MOL WGT - HOMOGENEOUS HEAD GROUP	394.6	2-PROPYL PENTYL/OXYETHYLENE/6 ALCOHOL						
	20	2.30 X10 ⁻² M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3
	30	2.0 X10 ⁻² M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 397 MOL WGT - HOMOGENEOUS HEAD GROUP	422.7	2-BUTYL HEXYL/OXYETHYLENE/6 ALCOHOL						
	15	3.36 X10 ⁻³ M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	L
	20	3.10 X10 ⁻³ M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3
	25	2.84 X10 ⁻³ M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 398 MOL WGT - HOMOGENEOUS HEAD GROUP	554.9	2-BUTYL HEXYL/OXYETHYLENE/9 ALCOHOL						
	20	3.20 X10 ⁻³ M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3
	30	2.79 X10 ⁻³ M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	3
	40	2.43 X10 ⁻³ M	BC	SURFACE TENSION LOG PLOT	ELWO FLOR	64049	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 399 MOL WGT -	278.0	DODECYL DIMETHYL ETHYLAMMONIUM CHLORIDE						
	25	1.9 X10 ⁻² M	BC	SURFACE TENSION LOG PLOT	WEIN ZOGR	65026	T	L
	UNK	2.13 X10 ⁻² M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
1. E-1 K CL 3 ENTRIES FOR COMPOUND								
	25	7.0 X10 ⁻³ M	BC	SURFACE TENSION LOG PLOT	WEIN ZOGR	65026	T	L
COMPOUND NO = 400 MOL WGT -	292.0	DODECYL METHYL DIETHYLAMMONIUM CHLORIDE						
	UNK	1.99 X10 ⁻² M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 401 MOL WGT -	306.0	DODECYL TRIETHYLAMMONIUM CHLORIDE						
	UNK	1.93 X10 ⁻² M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 402 MOL WGT -	278.0	TRIDECYL TRIMETHYLAMMONIUM CHLORIDE						
	UNK	1.12 X10 ⁻² M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 403 MOL WGT -	326.0	DODECYL DIMETHYLPHENYLAMMONIUM CHLORIDE						
	UNK	7.05 X10 ⁻³ M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 404 MOL WGT - C6H5CH2CH2/N/CH3/2/C12H25	354.1	DODECYL DIMETHYL 2-PHENYLETHYLAMMONIUM CHLORIDE						
	UNK	4.1 X10 ⁻³ M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 405 MOL WGT -	354.1	DODECYL METHYLETHYLBENZYLAMMONIUM CHLORIDE						
	UNK	7.7 X10 ⁻³ M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 406 MOL WGT - CHLORIDE CF3C6H4CH2/N/CH3/2/C12H25	408.0	DODECYL DIMETHYL META-TRIFLUOROMETHYLBENZYL AMMONIUM						
	UNK	3.2 X10 ⁻³ M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L
1 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation	
COMPOUND NO = 407 MOL WGT - C6H5CH2CH2/N/CH3/2/C12H25	368.1	DODECYL DIMETHYL 3-PHENYLPROPYLAMMONIUM CHLORIDE							
	UNK	3.13 X10-3 M	CC	UNSPECIFIED CONDUCTANCE	CELL EGGE	52001	T	L	
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 408 MOL WGT -	344.6	POTASSIUM HEXADECANE 1-SULFONATE							
	80	1.80 X10-3 W	CD	EQUIV CONDUCTNCE GRAPH	MURR HART	35001	K	L	
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 409 MOL WGT -	415.6	TRIETHANOLAMMONIUM DODECYL SULFATE							
	59017			VALUES FRM REF IN CMC	KASH	58021		R	
	33	4. X10-3 M	BE	SURFACE TNSN LINEAR PLOT	KASH EZAK	59017	T	L	
	40	4. X10-3 M	BE	FOAMING POWER	KASH EZAK	59017	T	L	
3 ENTRIES FOR COMPOUND									
COMPOUND NO = 410 MOL WGT -	353.5	MORPHOLINIUM DODECYL SULFATE							
	59017			VALUES FRM REF IN CMC	KASH	58021		R	
	40	3. X10-3 M	BE	FOAMING POWER	KASH EZAK	59017	T	L	
	40	4. X10-3 M	BE	SURFACE TNSN LINEAR PLOT	KASH EZAK	59017	T	L	
3 ENTRIES FOR COMPOUND									
COMPOUND NO = 411 MOL WGT -	217.4	DECYLAMMONIUM ACETATE							
	UNK	4. X10-2 M	CE	METHOD NOT CITED	SOMA HEAL	64035	T	L	
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 412 MOL WGT -	245.5	DODECYLAMMONIUM ACETATE							
	UNK	1.3 X10-2 M	CD	METHOD NOT CITED	SOMA HEAL	64035	T	L	
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 413 MOL WGT -	273.5	TETRADECYLAMMONIUM ACETATE							
	UNK	4. X10-3 M	CE	METHOD NOT CITED	SOMA HEAL	64035	T	L	
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 414 MOL WGT -	301.6	HEXADECYLAMMONIUM ACETATE							
	UNK	8. X10-4 M	CE	METHOD NOT CITED	SOMA HEAL	64035	T	L	
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 415 MOL WGT -	329.6	OCTADECYLAMMONIUM ACETATE							
	UNK	3 X10-4 M	CE	METHOD NOT CITED	SOMA HEAL	64035	T	L	
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 416 MOL WGT -	314.1	PERFLUORO HEXANOIC ACID							
				QUESTIONABLE CRITERION	KLEV RAIS	54010		R	
				QUESTIONABLE CRITERION	KLEV VERG	57017		R	
				VALUES FRM REF IN CMC	KLEV VERG	56010		R	
	0	1.09 X10-1 M	BC	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P	3	
	18.5	8.2 X10-2 M	BC	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L	
	18	1.06 X10-1 M	BC	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P	3	
	25	5.4 X10-2 M	BG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L	
	UNK	5.0 X10-2 M	CG	METHOD NOT CITED	KLEV CARR	56001	T	L	
	UNK	5.1 X10-2 M	XG	METHOD NOT CITED	KLEV RAIS	54004	T	L	
	UNK			GRAPH DATA NOT RETRIEVED	KLEV RAIS	54004		R	
E O PH OF SOLUTION									
10 ENTRIES FOR COMPOUND									
COMPOUND NO = 417 MOL WGT -	414.1	PERFLUORO OCTANOIC ACID							
				QUESTIONABLE CRITERION	KLEV RAIS	54010		R	
				QUESTIONABLE CRITERION	KLEV VERG	57017		R	
				VALUES FRM REF IN CMC	KLEV VERG	56010		R	
	18.5	9.0 X10-3 M	BC	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L	
	18	9.8 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P	3	
	25	5.6 X10-3 M	BC	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L	
	30	8.7 X10-3 M	BC	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L	
	35	9.3 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P	3	
	45	1.02 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P	3	
	UNK	5.1 X10-3 M	CG	METHOD NOT CITED	KLEV CARR	56001	T	L	
	2.5 E-2 M	30	3.2 X10-3 M	BC	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
	5. E-2 M	30	2. X10-3 M	BE	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
5.	E-2 M K CL	30	5. X10-3 M	BE	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
5.	E-3 M K OH	30	1.12 X10-2 M	BD	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
1.	E-2 M K OH	30	1.52 X10-2 M	BD	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
2.5	E-2 M K OH	30	3.02 X10-2 M	BD	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
5.	E-2 M K OH	30	2.4 X10-2 M	BD	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
1.0	E-1 M K OH	30	1.9 X10-2 M	BD	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
	E O PH OF SOLUTION	UNK			GRAPH DATA NOT RETRIEVED	KLEV RAIS	54004		R
2.5	E 1 C 0001	30	1.10 X10-2 M	CD	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
5.0	E 1 C 0001	30	4.5 X10-3 M	CD	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
8.0	E 1 C 0001	30	5. X10-3 M	CE	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
9.0	E 1 C 0001	30	5.5 X10-3 M	CE	SURFACE TENSION MINIMUM	KLEV RAIS	54010	T	L
23 ENTRIES FOR COMPOUND									
COMPOUND NO = 418 MOL WGT -			258.3	SODIUM UNDECYL SULFONATE					
		20	1.9 X10-2 M	BC	INTERFACIAL TENSION LOGM	V VO	60025	T	L
3.	E-2 K NA CL	20	1.4 X10-2 M	BC	INTERFACIAL TENSION LOGM	V VO	60025	T	L
2 ENTRIES FOR COMPOUND									
COMPOUND NO = 419 MOL WGT -			356.5	SODIUM ALPHA-HEPTYL UNDECYL SULFONATE					
		20	3.6 X10-4 M	BB	INTERFACIAL TENSION LOGM	V VO	60025	T	L
1.	E-3 K NA CL	20	2.9 X10-4 M	BB	INTERFACIAL TENSION LOGM	V VO	60025	T	L
2 ENTRIES FOR COMPOUND									
COMPOUND NO = 420 MOL WGT -			360.6	POTASSIUM 1-1-2-OCTANE TRICARBOXYLATE					
		25	7.9 X10-1 M	DG	VISUAL SPCTR CHNGE PNCN	SHIN	56003	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 421 MOL WGT -			416.7	POTASSIUM 1-1-2-DODECANE TRICARBOXYLATE					
		25	9.5 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	SHIN	56003	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 422 MOL WGT -			472.8	POTASSIUM 1-1-2-HEXADECANE TRICARBOXYLATE					
		25	1.2 X10-2 M	DG	VISUAL SPCTR CHNGE PNCN	SHIN	56003	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 423 MOL WGT -			174.3	OCTYL/OXYETHYLENE/1 ALCOHOL--OCTYL GLYCOL ETHER					
	HOMOGENEOUS HEAD GROUP	25	4.9 X10-3 M	BC	SURFACE TENSION LOG PLOT	SHIN YAMA	59013	T	3
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 424 MOL WGT -			204.3	OCTYL ALPHA-GLYCERYL ETHER					
		25	5.8 X10-3 M	BC	SURFACE TENSION LOG PLOT	SHIN YAMA	59013	T	3
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 425 MOL WGT -			388.6	POTASSIUM 1-1-2-DECANE TRICARBOXYLATE					
		25			THEORETICALLY ESTIMATED	SHIN	56003	T	R
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 426 MOL WGT -			444.7	POTASSIUM 1-1-2-TETRADECANE TRICARBOXYLATE					
		25			THEORETICALLY ESTIMATED	SHIN	56003	T	R
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 427 MOL WGT -			384.5	HEXADECYL PYRIDINIUM BROMIDE					
		25	6.2 X10-4 M	CB	SPECFC CONDUCTNCE GRAPH	BENT SPAR	66038	T	L
		25	5.81 X10-4 M	BA	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	2
		25	7.00 X10-4 W	BD	SPECFC CONDUCTNCE GRAPH	CZER	65037	T	L
		27.0	4.8 X10-4 M	BC	KRAFFT POINT SOLUBILITY	ADDI FURM	56019	T	L
		30.0	4.7 X10-4 M	BC	INTERFACIAL TNSN UNSPEC	ADDI FURM	56019	T	L
		35	7.5 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	HART COLL	36001	T	3
		35	7.7 X10-4 M	BB	SPECFC CONDUCTNCE GRAPH	HART COLL	36001	P	3
		35	7.80 X10-4 W	BD	SPECFC CONDUCTNCE GRAPH	CZER	65037	T	L
		45	8.90 X10-4 W	BD	SPECFC CONDUCTNCE GRAPH	CZER	65037	T	L
		55	1.035X10-3 W	BD	SPECFC CONDUCTNCE GRAPH	CZER	65037	T	L
3.	E-3 M K BR	40	3.4 X10-4 M	BD	TURBIDITY PLT LITE SCATR	TART	59010	T	L
6.4	E O H METHANOL	25	7.51 X10-4 M	BC	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	3
1.470E	1 H METHANOL	25	1.18 X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	2
1.991E	1 H METHANOL	25	1.69 X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	2

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/l (or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
2.602E 1 H METHANOL	25	2.81 X10-3 M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	3
3.520E 1 H METHANOL	25	6.01 X10-3 M	BA	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P	2
E O 0099				GRAPH DATA NOT RETRIEVED	LANG	53005		R
E O 0290				GRAPH DATA NOT RETRIEVED	LANG	53005		R
18 ENTRIES FOR COMPOUND								
COMPOUND NO = 428 MOL WGT -		114.0		PERFLUORO ACETIC ACID				
				QUESTIONABLE CRITERION	KLEV RAIS	54010		R
		57017		VALUES FRM REF IN CMC	KLEV VERG	56010		R
	25	2.6 X10 0 M	BE	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
	25			QUESTIONABLE CRITERION	KLEV	58011		R
	35			QUESTIONABLE CRITERION	KLEV VERG	57017		R
5 ENTRIES FOR COMPOUND								
COMPOUND NO = 429 MOL WGT -		164.0		PERFLUORO PROPIONIC ACID				
				VALUES FRM REF IN CMC	KLEV VERG	56010		R
	25	1.11 X10-3 M	BG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L
	35			QUESTIONABLE CRITERION	KLEV VERG	57017		R
	35	1.21 X10 0 M	AC	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 430 MOL WGT -		214.0		PERFLUORO BUTYRIC ACID				
				QUESTIONABLE CRITERION	KLEV RAIS	54010		R
				QUESTIONABLE CRITERION	KLEV VERG	57017		R
		57017		VALUES FRM REF IN CMC	KLEV VERG	56010		R
	0	5.5 X10-1 M	AC	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P	L
	04.9-	1.49 X10 0 W	AC	FREEZING POINT	HOLL CADY	59023	C	L
	18	5.0 X10-1 M	AC	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P	L
	25	7.1 X10-1 M	BC	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
	25	5.3 X10-1 M	BG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L
	35	4.9 X10-1 M	AC	EQUIV CONDUCTNCE GRAPH	KLEV VERG	57017	P	L
9 ENTRIES FOR COMPOUND								
COMPOUND NO = 431 MOL WGT -		574.9		TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/8.5 ALCOHOL				
BRANCHED CHAIN, NATURAL OE DISTRIBUTION								
		UNK 8.8	X10-3 D	HC	FOTOMTR SPCTR CHNG I2	BECH	59006	G L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 432 MOL WGT -		641.0		TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/10 ALCOHOL				
BRANCHED CHAIN, NATURAL OE DISTRIBUTION								
		UNK 8.1	X10-3 D	HC	FOTOMTR SPCTR CHNG I2	BECH	59006	G L
E O NA CL	25			SUMMARIZING EQN ONLY	BECH	62002		R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 433 MOL WGT -		861.3		TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/15 ALCOHOL				
BRANCHED CHAIN, NATURAL OE DISTRIBUTION								
		UNK 1.3	X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	59006	G L
E O NA CL	25			SUMMARIZING EQN ONLY	BECH	62002		R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 434 MOL WGT -		1,169.7		TRIDECYL/OXO-PROCESS/ /OXYETHYLENE/22 ALCOHOL				
BRANCHED CHAIN, NATURAL OE DISTRIBUTION								
		UNK 2.8	X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	59006	G L
E O NA CL	25			SUMMARIZING EQN ONLY	BECH	62002		R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 435 MOL WGT -		711.2		OCTADECYL/OXYETHYLENE/10 ALCOHOL				
NATURAL DISTRIBUTION OF HEAD GROUPS								
		62002		QUESTIONABLE CRITERION	BECH	62002		R
				VALUES FRM REF IN CMC	BECH	59006		R
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 436 MOL WGT -		1,151.8		OCTADECYL/OXYETHYLENE/20 ALCOHOL				
NATURAL DISTRIBUTION OF HEAD GROUPS								
		62002		QUESTIONABLE CRITERION	BECH	62002		R
				VALUES FRM REF IN CMC	BECH	59006		R
2 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol / D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 437 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	797.3	OLEYL/CIS-9-OCTADECENOYL/	/OXYETHYLENE/12	ALCOHOL				
	UNK	3.3 X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	59006	G L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 438 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	973.5	OLEYL/CIS-9-OCTADECENOYL/	/OXYETHYLENE/16	ALCOHOL				
	UNK	3.2 X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	59006	G L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 439 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	1,149.7	OLEYL/CIS-9-OCTADECENOYL/	/OXYETHYLENE/20	ALCOHOL				
	UNK	2.9 X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	59006	G L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 440 MOL WGT - ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS	522.8	/OXYETHYLENE/4	SORBITAN MONOLAURATE					
	UNK	1.3 X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	59006	G L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 441 MOL WGT - ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS	699.0	/OXYETHYLENE/8	SORBITAN MONOLAURATE					
	UNK	1.2 X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	59006	G L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 442 MOL WGT - ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS	787.1	/OXYETHYLENE/10	SORBITAN MONOLAURATE					
	UNK	1.2 X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	59006	G L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 443 MOL WGT - ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS	1,227.7	/OXYETHYLENE/20	SORBITAN MONOLAURATE					
	UNK	1.4 X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	59006	G L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 444 MOL WGT - ISOMERS AND DISTRIBUTED MULTIPLE OE CHAINS	1,448.0	/OXYETHYLENE/25	SORBITAN MONOLAURATE					
	UNK	1.4 X10-2 D	HD	FOTOMTR SPCTR CHNG I2	BECH	59006	G L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 445 MOL WGT -	292.3	SODIUM PARA-BIS-/N-BUTYL/	BENZENE SULFONATE					
	60			QUESTIONABLE CRITERION	KOBE KLAM	60017		R
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 446 MOL WGT -	348.5	SODIUM PARA-BIS-/N-HEXYL/	BENZENE SULFONATE					
	60			QUESTIONABLE CRITERION	KOBE KLAM	60017		R
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 447 MOL WGT -	404.6	SODIUM PARA-BIS-/N-OCTYL/	BENZENE SULFONATE					
	60			QUESTIONABLE CRITERION	KOBE KLAM	60017		R
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 448 MOL WGT -	306.5	SODIUM OCTADECANOATE	/STEARATE/					
	50	1.8 X10-3 M	HC	QUESTIONABLE CRITERION	STAU	39006		R
	UNK	4. X10-2 D	XG	SPECFC CONDUCTNCE GRAPH	MARO ELDE	54006		T L
		1.3 X10-3 M		VISUAL SPCTR CHNGE PNCH	DEMC	61031		T L
1. E-1 H NA OH	70	7.5 X10-5 M	CC	SURFACE TENSION LOG PLOT	POWN ADDI	38006		M L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 449 MOL WGT -	235.9	DODECYLMETHYL AMMONIUM CHLORIDE						
	30	1.46 X10-2 M	BC	EQUIV CONDUCTNCE GRAPH	RALS BROO	49013		T 3
1 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions: M—molar; N—normal; P—wt %; O—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values - Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 450 MOL WGT -	249.9	DODECYLDIMETHYL AMMONIUM CHLORIDE						
1 ENTRIES FOR COMPOUND	30	1.61 X10-2 M	BC	EQUIV CONDUCTNCE GRAPH	RAIS BROO	49013	T	3
COMPOUND NO = 451 MOL WGT -	448.1	PARA DI-ISOBUTYLPHENOXYETHOXYETHYL DIMETHYLBENZYL AMMONIUM CHLORIDE /HYAMINE 1622/						
QUESTIONABLE CRITERION					ROSS HUDS	57010		R
GRAPH DATA NOT RETRIEVED					COHE VASS	61027		R
	24.7	1.6 X10-1 P	HC	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
E 0 DC ANTIFOAM A (FMS*)	24.7	1.7 X10-1 P	HC	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
5. E-2 P DECANOL-1	24.7	9. X10-2 P	HD	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
5. E-2 P LAURYL ALCOHOL	24.7	1.1 X10-1 P	HD	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
5.0 E-2 P TRIBUTYL PHOSPHATE	24.7	1.5 X10-1 P	HC	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
5.0 E-1 P TRIBUTYL PHOSPHATE	24.7	1.4 X10-1 P	HC	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
5. E-2 P 2-ETHYL HEXANOL	24.7	1.3 X10-1 P	HC	SPECFC CONDUCTNCE GRAPH	ROSS BRAM	57031	T	L
9 ENTRIES FOR COMPOUND								
COMPOUND NO = 452 MOL WGT -	246.9	3-4-DICHLOROPERFLUORO BUTYRIC/KEL-F/ACID						
1 ENTRIES FOR COMPOUND	25	7.0 X10-1 M	HG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L
COMPOUND NO = 453 MOL WGT -	363.4	3-5-6-TRICHLOROPERFLUORO HEXANOIC/KEL-F/ACID						
1 ENTRIES FOR COMPOUND	25	6.2 X10-2 M	HG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L
COMPOUND NO = 454 MOL WGT -	479.9	3-5-7-8-TETRACHLOROPERFLUORO OCTANOIC/KEL-F/ACID						
1 ENTRIES FOR COMPOUND	25	9.1 X10-3 M	HG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L
COMPOUND NO = 455 MOL WGT -	514.1	PERFLUORO DECANOIC ACID						
	25	4.8 X10-4 M	BG	UNSPEC SPCTR CHNG PNCN	KLEV	58011	T	L
	30	8.9 X10-4 M	BC	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
3 ENTRIES FOR COMPOUND	UNK	8. X10-4 M	XG	METHOD NOT CITED	KLEV RAIS	54004	T	L
COMPOUND NO = 456 MOL WGT -	452.2	POTASSIUM PERFLUORO OCTANOATE						
	25	2.88 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T	3
	30	2.74 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T	3
	30	2.63 X10-2 M	BC	SURFACE TENSION LOG PLOT	KLEV RAIS	54010	T	L
	40	2.65 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T	3
	55	2.76 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T	3
	70	3.07 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T	3
	85	3.94 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	T	3
	UNK	2.7 X10-2 M	XG	METHOD NOT CITED	KLEV RAIS	54004	T	L
9.4 E-3 W K N03	30	2.43 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
1.82 E-2 W K N03	30	2.22 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
2.96 E-2 W K N03	30	2.01 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
8.3 E-3 W K N03	40	2.40 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
2.39 E-2 W K N03	40	2.07 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
4.08 E-2 W K N03	40	1.79 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
7.31 E-2 W K N03	40	1.46 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
1.13 E-2 W K N03	55	2.42 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
2.30 E-2 W K N03	55	2.17 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
3.94 E-2 W K N03	55	1.95 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
4.65 E-2 W K N03	55	1.82 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
6.01 E-2 W K N03	55	1.65 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
7.77 E-2 W K N03	55	1.49 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
1.28 E-2 W K N03	70	2.75 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
3.77 E-2 W K N03	70	2.22 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
8.22 E-2 W K N03	70	1.82 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
4.65 E-2 W K N03	85	2.59 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
7.71 E-2 W K N03	85	2.27 X10-2 W	BB	UNSPECIFIED CONDUCTANCE	SHIN KATS	64011	L	3
26 ENTRIES FOR COMPOUND								
COMPOUND NO = 457 MOL WGT -	118.2	1-4-HEXANEDIOL						
	24	1.9 X10-1 M	BC	SURFACE TENSION LOG PLOT	KATO	63037	T	L
	UNK	2.0 X10-1 M	BC	FOTOMTR SOLUBLZTN SDN 4	KATO	63037	T	L
3 ENTRIES FOR COMPOUND	UNK	1.9 X10-1 M	BC	REFRACTIVE INDEX	KATO	63037	T	L

Concentration units: A - mol %; B - vol % solvent; C - mol % surfactant mixture; counterions; M - molar; N - normal; P - wt %; Q - wt % surfactant; R - varied; S - mol/dl; T - wt % surfactant mixture; U - mol/(l or kg); W - molal; Y - atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Compounds	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation	
COMPOUND NO = 458	MOL WGT -	347.3	DECYL PYRIDINIUM IODIDE							
		RM 2.4	X10-2 M	CC	FOTOMTR SOLUBLZTN OROT	HARK KRIZ	51010	T	L	
		RM 2.25	X10-2 M	CB	MICELLAR SPECTRAL CHANGE	HARK KRIZ	51010	T	3	
		RM 2.23	X10-2 M	CG	VISUAL SPCTR CHNGE SKYB	HARK KRIZ	51010	T	L	
3 ENTRIES FOR COMPOUND										
COMPOUND NO = 459	MOL WGT -	.0	ALKYL/15-17/ /OXYETHYLENE/ /19-23/ALCOHOL							
	/CETOMACROGOL 1000/	20	X10-3 D	HC	SURFACE TENSION LOG PLOT	ELWO	60027	T	L	
		20	X10-3 D	HE	FOTOMTR SOLUBLZTN DMYL	ELWO	60027	T	L	
		UNK 2.1	X10-3 D	HG	SURFACE TENSION UNSPEC	WAN	66018	T	L	
		UNK 1.1	X10-3 D	HE	SURFACE TENSION UNSPEC	HUGO NEWT	60026	T	L	
		UNK 1.2	X10-3 D	HE	FOTOMTR SPCTR CHNG I2	HUGO NEWT	60026	T	L	
		UNK 7.0	X10-3 D	HD	FOTOMTR SPCTR CHNG I2	ELWO	60027	T	L	
2.	E-1 M NA CL	UNK 6.7	X10-3 D	HD	FOTOMTR SPCTR CHNG I2	ELWO	60027	G	L	
7.	E-1 M NA CL	UNK 6.2	X10-3 D	HD	FOTOMTR SPCTR CHNG I2	ELWO	60027	G	L	
1.0	E O M NA CL	UNK 5.8	X10-3 D	HD	FOTOMTR SPCTR CHNG I2	ELWO	60027	G	L	
1.5	E O M NA CL	UNK 4.7	X10-3 D	HD	FOTOMTR SPCTR CHNG I2	ELWO	60027	G	L	
2.0	E O M NA CL	UNK 3.5	X10-3 D	HD	FOTOMTR SPCTR CHNG I2	ELWO	60027	G	L	
2.5	E O M NA CL	UNK 3.	X10-3 D	HE	FOTOMTR SPCTR CHNG I2	ELWO	60027	T	L	
12 ENTRIES FOR COMPOUND										
COMPOUND NO = 460	MOL WGT -	356.5	DODECYL TROPYLIUM MONOPHOSPHATE							
8.5	E 1 H H3 P04	25	1.0	X10-3 M	BD	SURFACE TENSION LOG PLOT	ABUH MYSE	65019	T	L
1 ENTRIES FOR COMPOUND										
COMPOUND NO = 461	MOL WGT -	118.2	BUTYL/OXYETHYLENE/1 ALCOHOL---BUTYL GLYCOL ETHER							
	HOMOGENEOUS HEAD GROUP	25	9.8	X10-1 M	CC	REFRACTIVE INDEX	DONB JACO	66019	T	L
		UNK 8.8	X10-1 M	CC	SURFACE TENSION LOG PLOT	DONB JACO	66019	T	L	
2 ENTRIES FOR COMPOUND										
COMPOUND NO = 462	MOL WGT -	376.4	SODIUM MONOLAURIN SULFATE							
		25	5.2	X10-3 M	CC	SPECFC CONDUCTNCE GRAPH	BISW MUKH	60028	T	L
		UNK 2.6	X10-3 M	CG	VISUAL SPCTR CHNGE RHD6	BISW MUKH	60028	T	L	
4.	E-3 M NA CL	25	3.4	X10-3 M	CC	SPECFC CONDUCTNCE GRAPH	BISW MUKH	60028	T	L
1.	E-2 M NA CL	25	1.6	X10-3 M	CC	SPECFC CONDUCTNCE GRAPH	BISW MUKH	60028	T	L
2.	E-2 M NA CL	25	1.03	X10-3 M	CD	SPECFC CONDUCTNCE GRAPH	BISW MUKH	60028	T	L
3.	E-2 M NA CL	25	6.025	X10-3 M	CE	SPECFC CONDUCTNCE GRAPH	BISW MUKH	60028	T	L
4.	E-3 M NA CL	UNK 1.75	X10-3 M	CG	VISUAL SPCTR CHNGE RHD6	BISW MUKH	60028	T	L	
1.	E-2 M NA CL	UNK 1.3	X10-3 M	CG	VISUAL SPCTR CHNGE RHD6	BISW MUKH	60028	T	L	
2.	E-2 M NA CL	UNK 9.	X10-4 M	CG	VISUAL SPCTR CHNGE RHD6	BISW MUKH	60028	T	L	
3.	E-2 M NA CL	UNK 6.3	X10-4 M	CG	VISUAL SPCTR CHNGE RHD6	BISW MUKH	60028	T	L	
4.	E-2 M NA CL	UNK 4.5	X10-4 M	CG	VISUAL SPCTR CHNGE RHD6	BISW MUKH	60028	T	L	
11 ENTRIES FOR COMPOUND										
COMPOUND NO = 463	MOL WGT -	705.0	NONYL BENZENE/OXYETHYLENE/11 ALCOHOL							
	NATURAL DISTRIBUTION OF HEAD GROUPS	28	2.47	X10-5 M	HD	SURFACE TENSION LOG PLOT	MANK	66021	T	L
1 ENTRIES FOR COMPOUND										
COMPOUND NO = 464	MOL WGT -	881.3	NONYL BENZENE/OXYETHYLENE/15 ALCOHOL							
	NATURAL DISTRIBUTION OF HEAD GROUPS	21.2	3.10	X10-5 M	HD	SURFACE TENSION LOG PLOT	MANK	66021	T	L
		25	2.85	X10-5 M	HD	SURFACE TENSION LOG PLOT	MANK	66021	T	L
		28	2.71	X10-5 M	HD	SURFACE TENSION LOG PLOT	MANK	66021	T	L
		33.5	2.69	X10-5 M	HD	SURFACE TENSION LOG PLOT	MANK	66021	T	L
		41.5	2.36	X10-5 M	HD	SURFACE TENSION LOG PLOT	MANK	66021	T	L
		45	2.27	X10-5 M	HD	SURFACE TENSION LOG PLOT	MANK	66021	T	L
6 ENTRIES FOR COMPOUND										
COMPOUND NO = 465	MOL WGT -	596.9	TRIDECYL/OXYETHYLENE/9 ALCOHOL							
	NATURAL DISTRIBUTION OF HEAD GROUPS	28	1.49	X10-5 M	HD	SURFACE TENSION LOG PLOT	MANK	66021	T	L
1 ENTRIES FOR COMPOUND										

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
COMPOUND NO = 466 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	28	596.9	TRIDECYL/SECONDARY/	/OXYETHYLENE/9 ALCOHOL	MANK	66021	T L
1 ENTRIES FOR COMPOUND		5.15 X10-5 M	HD	SURFACE TENSION LOG PLOT			
COMPOUND NO = 467 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	28	729.1	TRIDECYL/SECONDARY/	/OXYETHYLENE/12 ALCOHOL	MANK	66021	T L
1 ENTRIES FOR COMPOUND		8.67 X10-5 M	HD	SURFACE TENSION LOG PLOT			
COMPOUND NO = 468 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	30	459.6	DODECYL/OXYETHYLENE/6.2	ALCOHOL	TOKI	64024	T L
1 ENTRIES FOR COMPOUND		8 X10-5 M	ED	FOTOMTR SOLUBLZTN YLOB			
COMPOUND NO = 469 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	30	521.2	DODECYL/OXYETHYLENE/7.6	ALCOHOL	TOKI	64024	T L
2 ENTRIES FOR COMPOUND		9 X10-5 M	ED	FOTOMTR SOLUBLZTN YLOB			
	30		EE	SURFACE TENSION LOG PLOT	TOKI	64024	T L
COMPOUND NO = 470 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	30	653.4	DODECYL/OXYETHYLENE/10.6	ALCOHOL	TOKI	64024	T L
1 ENTRIES FOR COMPOUND		1.2 X10-4 M	ED	FOTOMTR SOLUBLZTN SDN 4			
COMPOUND NO = 471 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	30	882.5	DODECYL/OXYETHYLENE/15.8	ALCOHOL	TOKI	64024	T L
2 ENTRIES FOR COMPOUND		1.8 X10-4 M	ED	FOTOMTR SOLUBLZTN YLOB			
	30		EE	SURFACE TENSION LOG PLOT	TOKI	64024	T L
COMPOUND NO = 472 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	30	1,085.2	DODECYL/OXYETHYLENE/20.4	ALCOHOL	TOKI	64024	T L
1 ENTRIES FOR COMPOUND		2.1 X10-4 M	EC	FOTOMTR SOLUBLZTN SDN 4			
COMPOUND NO = 473 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	30	1,380.4	DODECYL/OXYETHYLENE/27.1	ALCOHOL	TOKI	64024	T L
2 ENTRIES FOR COMPOUND		2.5 X10-4 M	EC	FOTOMTR SOLUBLZTN SDN 4			
	30		EE	SURFACE TENSION LOG PLOT	TOKI	64024	T L
COMPOUND NO = 474 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	30	1,887.1	DODECYL/OXYETHYLENE/38.6	ALCOHOL	TOKI	64024	T L
2 ENTRIES FOR COMPOUND		3.6 X10-4 M	EC	FOTOMTR SOLUBLZTN SDN 4			
	30		EE	SURFACE TENSION LOG PLOT	TOKI	64024	T L
COMPOUND NO = 475 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	30	3,151.6	DODECYL/OXYETHYLENE/67.3	ALCOHOL	TOKI	64024	T L
1 ENTRIES FOR COMPOUND		5.7 X10-4 M	EC	FOTOMTR SOLUBLZTN SDN 4			
COMPOUND NO = 476 MOL WGT -	20	166.2	SODIUM OCTANOATE		SATA TYUZ	53006	T L
	20	7 X10-2 M	XG	VISCOSITY MINIMUM	HESS PHIL	39009	T L
	25	3.6 X10-1 M	DE	VISCOSITY	CAMP LAKS	65024	T L
	25	3.40 X10-1 M	DB	SPECFC CONDCTNCE GRAPH	CAMP LAKS	65024	T L
	25	3.51 X10-1 M	DB	SURFACE TENSION LOG PLOT	CAMP LAKS	65024	T L
	35	3.60 X10-1 M	DB	SPECFC CONDCTNCE GRAPH	CAMP LAKS	65024	T L
6 ENTRIES FOR COMPOUND	50	3.85 X10-1 M	DB	SURFACE TENSION LOG PLOT	CAMP LAKS	65024	T L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 477 MOL WGT - 1 ENTRIES FOR COMPOUND	392.6 23	3.0 X10-4 M	HG	OCTADECYL TRIMETHYLAMMONIUM BROMIDE STREAMING CURRENT	CARD	66011	T L	
COMPOUND NO = 478 MOL WGT - 1 ENTRIES FOR COMPOUND	378.6 23	4.8 X10-3 M	GH	HEXADECYL DIMETHYLETHYLAMMONIUM BROMIDE STREAMING CURRENT	CARD	66011	T L	
COMPOUND NO = 479 MOL WGT - 2 ENTRIES FOR COMPOUND	403.4 28.0 40.0	7.9 X10-4 M 1.2 X10-3 M	BC	TETRADECYL PYRIDINIUM IODIDE KRAFFT POINT SOLUBILITY INTERFACIAL TNSN UNSPEC	ADDI FURM ADDI FURM	56019 56019	T L T L	
COMPOUND NO = 480 MOL WGT - 2 ENTRIES FOR COMPOUND	431.5 35.0 50.0	3.1 X10-4 M 4.4 X10-4 M	BC	HEXADECYL PYRIDINIUM IODIDE KRAFFT POINT SOLUBILITY INTERFACIAL TNSN UNSPEC	ADDI FURM ADDI FURM	56019 56019	T L T L	
COMPOUND NO = 481 MOL WGT - 1 ENTRIES FOR COMPOUND	459.6 45.5	1.3 X10-4 M	BD	OCTADECYL PYRIDINIUM IODIDE KRAFFT POINT SOLUBILITY	ADDI FURM	56019	T L	
COMPOUND NO = 482 MOL WGT - 2. E-2 N ACETIC ACID 2. E-2 N H CL 2. E-2 N NA ACETATE 2. E-2 N NA CL 5 ENTRIES FOR COMPOUND	248.4 30 30 30 30 30	9.9 X10-3 M 9.9 X10-3 M 7.1 X10-3 M 6.9 X10-3 M 6.9 X10-3 M	BC	DODECYL AMMONIUM NITRATE EQUIV CONDUCTNCE GRAPH EQUIV CONDUCTNCE GRAPH EQUIV CONDUCTNCE GRAPH EQUIV CONDUCTNCE GRAPH EQUIV CONDUCTNCE GRAPH	RALS EGGE RALS EGGE RALS EGGE RALS EGGE RALS EGGE	49008 49008 49008 49008 49008	K 3 K L K L K L K L	
COMPOUND NO = 483 MOL WGT - 1 ENTRIES FOR COMPOUND	306.0 30	2.83 X10-2 M	BB	DIOCTYL DIMETHYL AMMONIUM CHLORIDE EQUIV CONDUCTNCE GRAPH	RALS EGGE	48014	K 3	
COMPOUND NO = 484 MOL WGT - 1 ENTRIES FOR COMPOUND	124.1 20	2.35 X10 0 M	DD	SODIUM PENTANOATE/VALERATE/ X-RAY DIFFRACTION	HESS PHIL	39009	T L	
COMPOUND NO = 485 MOL WGT - 1.1 E 1 PH OF SOLUTION 1.1 E 1 PH OF SOLUTION 1.1 E 1 PH OF SOLUTION 1.1 E 1 PH OF SOLUTION 5 ENTRIES FOR COMPOUND	138.2 20 5 20 60 90	1.57 X10 0 M 6.60 X10-1 M 7.30 X10-1 M 8.90 X10-1 M 1.11 X10 0 M	DE	SODIUM HEXANOATE/CAPROATE/ VISCOSITY SPECFC CONDUCTNCE GRAPH SPECFC CONDUCTNCE GRAPH SPECFC CONDUCTNCE GRAPH SPECFC CONDUCTNCE GRAPH	HESS PHIL MARK TSIK MARK TSIK MARK TSIK MARK TSIK	39009 64051 64051 64051 64051	T L T L T L T L T L	
COMPOUND NO = 486 MOL WGT - 1 ENTRIES FOR COMPOUND	152.2 20	9.5 X10-1 M	DE	SODIUM HEPTANOATE VISCOSITY	HESS PHIL	39009	T L	
COMPOUND NO = 487 MOL WGT - 1.1 E 1 PH OF SOLUTION 1.1 E 1 PH OF SOLUTION 1.1 E 1 PH OF SOLUTION 5 ENTRIES FOR COMPOUND	180.2 20 20 60 90	2.4 X10-1 M 2.2 X10-1 M 1.59 X10-1 M 1.82 X10-1 M 2.04 X10-1 M	XG	SODIUM NONANOATE VISCOSITY MINIMUM VISCOSITY SPECFC CONDUCTNCE GRAPH SPECFC CONDUCTNCE GRAPH SPECFC CONDUCTNCE GRAPH	SATA TYUZ HESS PHIL MARK TSIK MARK TSIK MARK TSIK	53006 39009 64051 64051 64051	T L T L T L T L T L	
COMPOUND NO = 488 MOL WGT - HOMOGENEOUS HEAD GROUP 2 ENTRIES FOR COMPOUND	494.8 23 23	7.1 X10-5 M 8.0 X10-5 M	PE PB	DODECYL/OXYETHYLENE/7 ALCOHOL FOTOMTR SPCTR CHNG I2 SURFACE TENSION LOG PLOT	LANG LANG	60012 60012	T L T L	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; T—wt % surfactant mixture; U—mol/l (or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values – Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 489 MOL WGT - HOMOGENEOUS HEAD GROUP	582.9	DODECYL/OXYETHYLENE/9 ALCOHOL						
	23	8.3 X10-5 M	PE	FOTOMTR SPCTR CHNG I2	LANG	60012	T	L
	23	1.0 X10-4 M	PC	SURFACE TENSION LOG PLOT	LANG	60012	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 490 MOL WGT - HOMOGENEOUS HEAD GROUP	715.1	DODECYL/OXYETHYLENE/12 ALCOHOL						
	23	1.4 X10-4 M	PC	SURFACE TENSION LOG PLOT	LANG	60012	T	L
	23	1.08 X10-4 M	PE	FOTOMTR SPCTR CHNG I2	LANG	60012	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 491 MOL WGT -	356.5	DODECYL TROPYLIUM BISULFATE						
6.0 E 1 H H2 S04	25	1.0 X10-3 M	BD	SURFACE TENSION LOG PLOT	ABUH MYSE	65019	T	L
7.8 E 1 H H2 S04	25	2.2 X10-3 M	BC	SURFACE TENSION LOG PLOT	ABUH MYSE	65019	T	3
9.6 E 1 H H2 S04	25	1.25 X10-2 M	BC	SURFACE TENSION LOG PLOT	ABUH MYSE	65019	T	3
9.6 E 1 H H2 S04	25	5.4 X10-3 M	BC	SURFACE TENSION LOG PLOT	ABUH MYSE	65019	T	3
9. E-1 M NA2 S04								
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 492 MOL WGT - BENZENE SULFONATE	348.5	SODIUM TETRAPROPYLENE/1-3-5-7-TETRAMETHYL-OCTYL/						
	75	3.14 X10-3 M	BG	VISUAL SPCTR CHNGE RIDG	CRIB	55028	T	L
2. E-1 M NA CL	20	3.0 X10-4 M	CC	SURFACE TENSION LOG PLOT	HARR	59001	K	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 493 MOL WGT -	306.4	SODIUM P-NONYL BENZENE SULFONATE						
	20	4.6 X10-3 M	BB	SURFACE TENSION LOG PLOT	HARR	59001	L	3
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 494 MOL WGT -	.0	POTASSIUM DILINOLEATE						
	25.8	2.5 X10-4 M	HG	FOTOMTR SPCTR CHNGE PNCN	CORR KLEV	46010	T	L
	25.8	3.0 X10-4 M	HC	SPECFC CONDUCTNCE GRAPH	CORR KLEV	46010	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 495 MOL WGT -	524.7	SUCROSE MONOLAURATE						
	20	1.85 X10-4 M	BE	INTERFACIAL TENSION LOGM	WACH HAYA	62023	T	L
	20	1.3 X10-4 M	BE	SURFACE TENSION LOG PLOT	WACH HAYA	62023	T	L
	27.1	6.4 X10-6 M	CD	SURFACE TENSION LOG PLOT	OSIP SNEI	57024	T	L
	27.1	3.4 X10-4 M	CD	SURFACE TENSION LOG PLOT	OSIP SNEI	57024	T	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 496 MOL WGT -	608.9	SUCROSE MONOSTEARATE						
	50	1.1 X10-5 M	BE	SURFACE TENSION LOG PLOT	WACH HAYA	62023	TL	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 497 MOL WGT -	552.7	SUCROSE MONOMYRISTATE						
	20	2.58 X10-5 M	BE	INTERFACIAL TENSION LOGM	WACH HAYA	62023	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 498 MOL WGT -	580.8	SUCROSE MONOPALMITATE						
	50	5.5 X10-5 M	BE	SURFACE TENSION LOG PLOT	WACH HAYA	62023	TL	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 499 MOL WGT -	819.3	SUCROSE DI-PALMITATE						
				QUESTIONABLE CRITERION	WACH HAYA	62023		R
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 500 MOL WGT -	354.0	DODECYL TRI/2-HYDROXYETHYL/AMMONIUM CHLORIDE						
	30	1.38 X10-2 M	BB	EQUIV CONDUCTNCE GRAPH	RAIS EGGE	49009	K	3
1 ENTRIES FOR COMPOUND								

Concentration units: A – mol %; B – vol % solvent; C – mol % surfactant mixture; D – wt/vol %; E – % saturation; H – wt % solvent; I – mol % surfactant; K – normality

counterions; M – molar; N – normal; P – wt %; Q – wt % surfactant; R – varied; S – mol/kg; T – wt % surfactant mixture; U – mol/(l or kg); W – molal; Y – atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives			Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO =	501	MOL WGT -	264.3	SODIUM	HEXYL	BENZENE SULFONATE				
			75	3.71 X10-2 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
			UNK	1.61 X10 0 D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
				6.091X10-2 M						M
2 ENTRIES FOR COMPOUND										
COMPOUND NO =	502	MOL WGT -	278.3	SODIUM	HEPTYL	BENZENE SULFONATE				
			75	2.09 X10-2 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
			UNK	5.98 X10-1 D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
				2.148X10-2 M						M
2 ENTRIES FOR COMPOUND										
COMPOUND NO =	503	MOL WGT -	292.3	SODIUM	OCTYL	BENZENE SULFONATE				
			75	1.06 X10-2 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	TA	L
			UNK	3.2 X10-1 D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
				1.09 X10-2 M						M
2 ENTRIES FOR COMPOUND										
COMPOUND NO =	504	MOL WGT -	306.4	SODIUM	NONYL	BENZENE SULFONATE				
			75	6.50 X10-3 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
1 ENTRIES FOR COMPOUND										
COMPOUND NO =	505	MOL WGT -	320.4	SODIUM	DECYL	BENZENE SULFONATE				
			75	3.70 X10-3 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
			UNK	1.2 X10-1 D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
				3.74 X10-3 M						M
2 ENTRIES FOR COMPOUND										
COMPOUND NO =	506	MOL WGT -	348.5	SODIUM	DODECYL	BENZENE SULFONATE				
			75	1.19 X10-3 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
			UNK	4.1 X10 2 D	XC	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
				1.17 X10-3 M						M
2 ENTRIES FOR COMPOUND										
COMPOUND NO =	507	MOL WGT -	376.5	SODIUM	TETRADECYL	BENZENE SULFONATE				
			75	6.6 X10-4 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
			UNK	2.5 X10-2 D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
				6.64 X10-4 M						M
2 ENTRIES FOR COMPOUND										
COMPOUND NO =	508	MOL WGT -	404.6	SODIUM	HEXADECYL	BENZENE SULFONATE				
			75	5.35 X10-4 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
			UNK	1.6 X10-2 D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
				3.95 X10-4 M						M
2 ENTRIES FOR COMPOUND										
COMPOUND NO =	509	MOL WGT -	432.6	SODIUM	OCTADECYL	BENZENE SULFONATE				
			75	6.38 X10-4 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
			UNK	1.0 X10-2 D	XG	VISUAL SPCTR CHNGE PNCN	DEMC	61031	T	L
				2.31 X10-4 M						M
2 ENTRIES FOR COMPOUND										
COMPOUND NO =	510	MOL WGT -	292.3	SODIUM	2-ETHYL-HEXYL	BENZENE SULFONATE				
			75	2.54 X10-2 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
1 ENTRIES FOR COMPOUND										
COMPOUND NO =	511	MOL WGT -	320.4	SODIUM	2-PROPYL-HEPTYL	BENZENE SULFONATE				
			75	8.48 X10-3 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
1 ENTRIES FOR COMPOUND										
COMPOUND NO =	512	MOL WGT -	348.5	SODIUM	2-BUTYL-OCTYL	BENZENE SULFONATE				
			75	3.20 X10-3 M	BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
1 ENTRIES FOR COMPOUND										

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/l (or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 513 MOL WGT - 1 ENTRIES FOR COMPOUND	75	376.5 3.32 X10-3 M	SODIUM 2-AMYL-NONYL BENZENE SULFONATE BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
COMPOUND NO = 514 MOL WGT - 1 ENTRIES FOR COMPOUND	75	348.5 3.12 X10-3 M	SODIUM 6-N-DODECYL BENZENE SULFONATE BG	VISUAL SPCTR CHNGE RHD6	GRIE	55028	T	L
COMPOUND NO = 515 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION 1 ENTRIES FOR COMPOUND	25	306.5 5.00 X10-1 P	ISO-OCTYL/OXYETHYLENE/4 ALCOHOL HD	SURFACE TENSION LOG PLOT	KOMO BEIS	66022	T	L
COMPOUND NO = 516 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION 1 ENTRIES FOR COMPOUND	25	320.5 3.45 X10-1 P	NONYL/OXYETHYLENE/4 ALCOHOL HD	SURFACE TENSION LOG PLOT	KOMO BEIS	66022	T	L
COMPOUND NO = 517 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION 1 ENTRIES FOR COMPOUND	25	598.9 1.30 X10-1 P	DECYL/OXO-PROCESS/ /OXYETHYLENE/10 ALCOHOL HD	SURFACE TENSION LOG PLOT	KOMO BEIS	66022	T	L
COMPOUND NO = 518 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION 1 ENTRIES FOR COMPOUND	25	450.7 8.4 X10-2 P	TRIMETHYLNONYL/OXYETHYLENE/6 ALCOHOL HD	SURFACE TENSION LOG PLOT	KOMO BEIS	66022	T	L
COMPOUND NO = 519 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION 1 ENTRIES FOR COMPOUND	25	334.6 6.6 X10-2 P	DECYL/OXO-PROCESS/ /OXYETHYLENE/4 ALCOHOL HD	SURFACE TENSION LOG PLOT	KOMO BEIS	66022	T	L
COMPOUND NO = 520 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS 1 ENTRIES FOR COMPOUND	25	524.8 2.3 X10-2 P	UNDECYL/OXYETHYLENE/8 ALCOHOL HD	SURFACE TENSION LOG PLOT	KOMO BEIS	66022	T	L
COMPOUND NO = 521 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION 1 ENTRIES FOR COMPOUND	25	641.0 9.4 X10-3 P	TRIDECYL/OXYETHYLENE/10 ALCOHOL HD	SURFACE TENSION LOG PLOT	KOMO BEIS	66022	T	L
COMPOUND NO = 522 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS 1 ENTRIES FOR COMPOUND	25	727.9 2.15 X10-3 P	DECYL BENZENE ORTHO/OXYETHYLENE/11.2 ALCOHOL HD	SURFACE TENSION LOG PLOT	KOMO BEIS	66022	T	L
COMPOUND NO = 523 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS 1 ENTRIES FOR COMPOUND	25	719.1 1.4 X10-3 P	DECYL BENZENE PARA/OXYETHYLENE/11.0 ALCOHOL HD	SURFACE TENSION LOG PLOT	KOMO BEIS	66022	T	L
COMPOUND NO = 524 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION 1 ENTRIES FOR COMPOUND	25	859.3 1.3 X10-3 P	HEXADECYL/OXYETHYLENE/14 ALCOHOL HD	SURFACE TENSION LOG PLOT	KOMO BEIS	66022	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 525 MOL WGT - 2 ENTRIES FOR COMPOUND	316.4	SODIUM TETRADECYL 6-SULFATE						
	60	9.80 X10-3 M	CB	UNSPECIFIED CONDUCTANCE	WINS	48008	L	3
	RM	1.23 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	WINS	48008	T	L
COMPOUND NO = 526 MOL WGT - 1 ENTRIES FOR COMPOUND	316.4	SODIUM 2-DI-N-HEXYL ETHYL SULFATE						
	RM	8.38 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	WINS	48008	T	L
COMPOUND NO = 527 MOL WGT - 1 ENTRIES FOR COMPOUND	222.3	SODIUM UNDECANE-3-CARBOXYLATE						
	RM	7.8 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	WINS	48008	T	L
COMPOUND NO = 528 MOL WGT - 7.0 E 1 H H CL04 1 ENTRIES FOR COMPOUND	358.9	DODECYL TROPYLIUM PERCHLORATE						
	25	8.6 X10-4 M	BC	SURFACE TENSION LOG PLOT	ABUH MYSE	65019	T	3
COMPOUND NO = 529 MOL WGT - 8.5 E 1 H H2 S04 E O PH OF SOLUTION 3 ENTRIES FOR COMPOUND	144.2	OCTANOIC ACID						
	UNK	8. X10-3 M	XG	SURFACE TENSION UNSPEC	KLEV RAIS	54004	T	L
	27	1.4 X10-1 M	CE	SURFACE TENSION LOG PLOT	STEI SHAN	65025	T	L
	UNK			GRAPH DATA NOT RETRIEVED	KLEV RAIS	54004		R
COMPOUND NO = 530 MOL WGT - 8.5 E 1 H H2 S04 1 ENTRIES FOR COMPOUND	172.3	DECANOIC ACID						
	27	2.4 X10-2 M	CE	SURFACE TENSION LOG PLOT	STEI SHAN	65025	T	L
COMPOUND NO = 531 MOL WGT - 9.5 E 1 H H2 S04 9.5 E 1 H H2 S04 9.5 E 1 H H2 S04 5. E O M K H S04 3 ENTRIES FOR COMPOUND	200.4	DODECANOIC ACID						
	27	5.7 X10-2 M	CD	SURFACE TENSION LOG PLOT	STEI SHAN	65025	T	L
	UNK	1.2 X10 0 D	CB	TURBIDITY PLT LITE SCATR	STEI SHAN	65025	C	L
		5.98 X10-2 M						M
	27	5.5 X10-2 M	CD	SURFACE TENSION LOG PLOT	STEI SHAN	65025	T	L
COMPOUND NO = 532 MOL WGT - 9.5 E 1 H H2 S04 1 ENTRIES FOR COMPOUND	228.4	TETRADECANOIC ACID						
	27	1.3 X10-2 M	CD	SURFACE TENSION LOG PLOT	STEI SHAN	65025	T	L
COMPOUND NO = 533 MOL WGT - 9.5 E 1 H H2 S04 1 ENTRIES FOR COMPOUND	256.5	HEXADECANOIC ACID						
	27	2.8 X10-3 M	CD	SURFACE TENSION LOG PLOT	STEI SHAN	65025	T	L
COMPOUND NO = 534 MOL WGT - 9.5 E 1 H H2 S04 9.55 E 1 H H2 S04 9.62 E 1 H H2 S04 9.73 E 1 H H2 S04 9.5 E 1 H H2 S04 9.5 E 1 H H2 S04 5. E O M K H S04 6 ENTRIES FOR COMPOUND	284.5	OCTADECANOIC ACID						
	27	4.5 X10-4 M	CD	SURFACE TENSION LOG PLOT	STEI SHAN	65025	T	L
	27	6.3 X10-4 M	CD	SURFACE TENSION LOG PLOT	STEI SHAN	65025	T	L
	27	1.1 X10-3 M	CD	SURFACE TENSION LOG PLOT	STEI SHAN	65025	T	L
	27	1.9 X10-3 M	CD	SURFACE TENSION LOG PLOT	STEI SHAN	65025	T	L
	UNK	9.1 X10-3 D	CD	TURBIDITY PLT LITE SCATR	STEI SHAN	65025	C	L
		3.19 X10-4 M						M
	27	2.8 X10-4 M	CD	SURFACE TENSION LOG PLOT	STEI SHAN	65025	T	L
COMPOUND NO = 535 MOL WGT - 0099 2 ENTRIES FOR COMPOUND	1,035.6	HEXADECYL/OXYETHYLENE/18 ALCOHOL						
	25	1.3 X10-5 M	ED	SURFACE TENSION LOG PLOT	SCHI	66025	L	L
	25			SEE CMPD NMBR IN ADDITV	SCHI	66025		X
COMPOUND NO = 536 MOL WGT - 1 ENTRIES FOR COMPOUND	208.3	NONYL SULFONIC ACID						
	25	4. X10-2 W	CE	EQUIV CONDUCTNCE GRAPH	MCBA DYE	39011	T	L
COMPOUND NO = 537 MOL WGT - 1 ENTRIES FOR COMPOUND	236.4	UNDECYL SULFONIC ACID						
	25	1.5 X10-2 W	CD	EQUIV CONDUCTNCE GRAPH	MCBA DYE	39011	T	L

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/l (or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 538 MOL WGT - 1 ENTRIES FOR COMPOUND		PLURONIC L62 UNK 2.40 X10 ⁻³ D	HC	FOTOMTR SPCTR CHNG I2	ROSS OLIV	59020	T L	
COMPOUND NO = 539 MOL WGT - 1 ENTRIES FOR COMPOUND		RENEX 698 UNK 4.7 X10 ⁻³ D	HC	FOTOMTR SPCTR CHNG I2	ROSS OLIV	59020	T L	
COMPOUND NO = 540 MOL WGT - 2 ENTRIES FOR COMPOUND		SIPONIC BC UNK 1.1 X10 ⁻² D UNK 1.20 X10 ⁻² D	HD HC	FOTOMTR SPCTR CHNG I2 SURFACE TENSION LOG PLOT	ROSS OLIV ROSS OLIV	59020 59020	T L T L	
COMPOUND NO = 541 MOL WGT - 1 ENTRIES FOR COMPOUND		332.4 SODIUM DODECYL MONO-OXYETHYLENE SULFATE 50 4.78 X10 ⁻³ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G L	
COMPOUND NO = 542 MOL WGT - 1 ENTRIES FOR COMPOUND		376.5 SODIUM DODECYL DIOXYETHYLENE SULFATE 50 3.00 X10 ⁻³ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G L	
COMPOUND NO = 543 MOL WGT - 1 ENTRIES FOR COMPOUND		464.6 SODIUM DODECYL TETRA-OXYETHYLENE SULFATE 50 1.26 X10 ⁻³ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G L	
COMPOUND NO = 544 MOL WGT - 1 ENTRIES FOR COMPOUND		360.5 SODIUM TETRADECYL MONO-OXYETHYLENE SULFATE 50 1.39 X10 ⁻³ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G L	
COMPOUND NO = 545 MOL WGT - 1 ENTRIES FOR COMPOUND		404.5 SODIUM TETRADECYL DI-OXYETHYLENE SULFATE 50 1.00 X10 ⁻³ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G L	
COMPOUND NO = 546 MOL WGT - 1 ENTRIES FOR COMPOUND		448.6 SODIUM TETRADECYL TRI-OXYETHYLENE SULFATE 50 6.92 X10 ⁻⁴ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G L	
COMPOUND NO = 547 MOL WGT - 1 ENTRIES FOR COMPOUND		414.6 SODIUM OLEYL MONO-OXYETHYLENE SULFATE 50 2.00 X10 ⁻³ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G L	
COMPOUND NO = 548 MOL WGT - 1 ENTRIES FOR COMPOUND		458.6 SODIUM OLEYL DI-OXYETHYLENE SULFATE 50 1.77 X10 ⁻³ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G L	
COMPOUND NO = 549 MOL WGT - 1 ENTRIES FOR COMPOUND		502.7 SODIUM OLEYL TRI-OXYETHYLENE SULFATE 50 1.19 X10 ⁻³ M	CD	SURFACE TENSION UNSPEC	GOTT	60018	G L	
COMPOUND NO = 550 MOL WGT - 4 ENTRIES FOR COMPOUND		.0 LAURIC ACID DIETHANOLAMINE CONDENSATE UNK 4.0 X10 ⁻⁵ M 25 3.98 X10 ⁻⁵ M 25 2.50 X10 ⁻⁵ M 25 1.00 X10 ⁻⁵ M	CE CG CG CG	FOTOMTR SPCTR CHNG I2 POLAROGRAPHIC MAXIMUM POLAROGRAPHIC MAXIMUM POLAROGRAPHIC MAXIMUM	MALI CHAN MALI CHAN MALI CHAN MALI CHAN	66023 66023 66023 66023	T L T L T L T L	
COMPOUND NO = 551 MOL WGT - 4 ENTRIES FOR COMPOUND		440.6 PHENYL SULFOSTEARIC ACID UNK 8.0 X10 ⁻⁵ M 25 8.20 X10 ⁻⁵ M 25 1.21 X10 ⁻⁴ M 25 9.80 X10 ⁻⁵ M	CE CG CG CG	FOTOMTR SPCTR CHNG I2 POLAROGRAPHIC MAXIMUM POLAROGRAPHIC MAXIMUM POLAROGRAPHIC MAXIMUM	MALI CHAN MALI CHAN MALI CHAN MALI CHAN	66023 66023 66023 66023	T L T L T L T L	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 552 MOL WGT -		454.7	TOLYL SULFOSTEARIC ACID					
	UNK	1.00 X10-4 M	CE	FOTOMTR SPCTR CHNG I2	MALI CHAN	66023	T	L
E O K CL	25	4.898X10-4 M	CG	POLAROGRAPHIC MAXIMUM	MALI CHAN	66023	T	L
E O K I	25	7.94 X10-5 M	CG	POLAROGRAPHIC MAXIMUM	MALI CHAN	66023	T	L
E O K NO3	25	2.19 X10-5 M	CG	POLAROGRAPHIC MAXIMUM	MALI CHAN	66023	T	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 553 MOL WGT -		468.7	XYLYL SULFOSTEARIC ACID					
	UNK	1.20 X10-4 M	CE	FOTOMTR SPCTR CHNG I2	MALI CHAN	66023	T	L
E O K CL	25	3.631X10-4 M	CG	POLAROGRAPHIC MAXIMUM	MALI CHAN	66023	T	L
E O K I	25	5.37 X10-5 M	CG	POLAROGRAPHIC MAXIMUM	MALI CHAN	66023	T	L
E O K NO3	25	1.29 X10-5 M	CG	POLAROGRAPHIC MAXIMUM	MALI CHAN	66023	T	L
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 554 MOL WGT -		348.5	SANTOMERSE 3 /SODIUM DODECYL BENZENE SULFONATE/					
	30	5. X10-3 W	HE	VAPR PRESURE LOWERING	BROW ROBI	52013		R
	50	6.5 X10-3 W	HD	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 555 MOL WGT -		.0	TERGITOL TMN					
				QUESTIONABLE CRITERION	BROW ROBI	52013		R
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 556 MOL WGT -		328.3	ARESKAP 100 /MONOBUTYL PHENYLPHENOL SODIUM					
	30	1.4 X10-2 W	HD	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 557 MOL WGT -		312.3	ARESKET 300 /MONOBUTYL BIPHENYL SODIUM MONOSULFONATE/					
	30	2.2 X10-2 W	HD	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 558 MOL WGT -		486.4	ARESKLENE 400 /DIBUTYL PHENYLPHENOL					
	30	1.7 X10-2 W	HD	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 559 MOL WGT -		.0	CATOL 605 /(N-(2-KETO-2-(2,-LAUROYL OXYETHYLAMINO))					
	30	5.5 X10-3 W	HD	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 560 MOL WGT -		.0	EMULSOL 607L (N-(2-KETO-2-(2,-LAUROYLOXETHYL AMINO))					
	0	5. X10-3 W	HE	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
	30	6. X10-3 W	HE	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
	50	8. X10-3 W	HE	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 561 MOL WGT -		320.4	SANTOMERSE D /SODIUM DECYLBENZENE SULFONATE/					
	30	2.1 X10-2 W	HD	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
	50	1.1 X10-2 W	HD	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 562 MOL WGT -		286.3	SODIUM DODECENYL SULFATE					
	50	1.6 X10-2 W	CD	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 563 MOL WGT -		.0	ZEPHIRAN /COCONUT DIMETHYLBENZYL AMMONIUM CHLORIDE/					
	30	3. X10-3 W	HE	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
	50	5. X10-3 W	HE	VAPR PRESURE LOWERING	HUFF MCBA	51004	T	L
2 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 564 MOL WGT - 1 ENTRIES FOR COMPOUND	50	.0 2.3 X10-3 M	NA OSR HC	SPECFC CONDUCTNCE GRAPH	MARO ELDE	54006	T L	
COMPOUND NO = 565 MOL WGT - 1 ENTRIES FOR COMPOUND	50	.0 8.0 X10-2 D	DAXAD 11 HC	SPECFC CONDUCTNCE GRAPH	MARO ELDE	54006	T L	
COMPOUND NO = 566 MOL WGT - 1 ENTRIES FOR COMPOUND	50	.0 3.0 X10-1 D	AQUAREX D HC	SPECFC CONDUCTNCE GRAPH	MARO ELDE	54006	T L	
COMPOUND NO = 567 MOL WGT - 1 ENTRIES FOR COMPOUND	50	.0 1.9 X10-1 D	SA-178 HC	SPECFC CONDUCTNCE GRAPH	MARO ELDE	54006	T L	
COMPOUND NO = 568 MOL WGT - 1. E-1 M MG S04 7 ENTRIES FOR COMPOUND	25 30 40 40 40 54 30	555.1 8.8 X10-4 M 1.25 X10-3 M 1.1 X10-3 M 1.0 X10-3 M 1.1 X10-3 M 1.1 X10-3 M 3. X10-4 M	MAGNESIUM DODECYL SULFATE BB BB BC BG BG BC BE	SURFACE TENSION LOG PLOT UNSPECIFIED CONDUCTANCE SURFACE TENSION LOG PLOT VISUAL SPCTR CHNGE PNCN VISUAL SPCTR CHNGE RHD6 SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT	MIYA SATA IWAM MIYA MIYA MIYA MIYA SATA IWAM	60029 63034 60029 60029 60029 60029 63034	T L T 3 T L T L T L T L T L	
COMPOUND NO = 569 MOL WGT - 1 ENTRIES FOR COMPOUND	67	618.4 1.1 X10-3 M	STRONTIUM DODECYL SULFATE BC	SURFACE TENSION LOG PLOT	MIYA	60029	T L	
COMPOUND NO = 570 MOL WGT - 2 ENTRIES FOR COMPOUND	54 67	737.9 1.0 X10-3 M 9.8 X10-4 M	LEAD DODECYL SULFATE BC BB	SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT	MIYA MIYA	60029 60029	T L T L	
COMPOUND NO = 571 MOL WGT - 5 ENTRIES FOR COMPOUND	25 40 40 40 54	585.7 1.1 X10-3 M 1.1 X10-3 M 1.1 X10-3 M 1.2 X10-3 M 1.1 X10-3 M	MANGANESE DODECYL SULFATE BC BC BG BG BC	SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT VISUAL SPCTR CHNGE RHD6 VISUAL SPCTR CHNGE PNCN SURFACE TENSION LOG PLOT	MIYA MIYA MIYA MIYA MIYA	60029 60029 60029 60029 60029	T L T L T L T L T L	
COMPOUND NO = 572 MOL WGT - 1. E-1 M CO S04 4 ENTRIES FOR COMPOUND	30 40 40 30	589.7 1.23 X10-3 M 1.3 X10-3 M 1.0 X10-3 M 3. X10-4 M	COBALTOUS DODECYL SULFATE BB BG BG BE	UNSPECIFIED CONDUCTANCE VISUAL SPCTR CHNGE RHD6 VISUAL SPCTR CHNGE PNCN SURFACE TENSION LOG PLOT	SATA IWAM MIYA MIYA SATA IWAM	63034 60029 60029 63034	T 3 T L T L T L	
COMPOUND NO = 573 MOL WGT - E O CU S04 1. E-1 M CU S04 E O NA2 S04 6 ENTRIES FOR COMPOUND	30 40 40 30	594.3 1.20 X10-3 M 1.3 X10-3 M 1.2 X10-3 M 3. X10-4 M	CUPRIC DODECYL SULFATE BB BG BG BE	UNSPECIFIED CONDUCTANCE VISUAL SPCTR CHNGE RHD6 VISUAL SPCTR CHNGE PNCN SURFACE TENSION LOG PLOT GRAPH DATA NOT RETRIEVED	SATA IWAM MIYA MIYA SATA IWAM SATA IWAM	63034 60029 60029 63034 63034	T 3 T L T L T L T L	
COMPOUND NO = 574 MOL WGT - 2 ENTRIES FOR COMPOUND	40 40	596.1 1.1 X10-3 M 1.1 X10-3 M	ZINC DODECYL SULFATE BG BG	VISUAL SPCTR CHNGE RHD6 VISUAL SPCTR CHNGE PNCN	MIYA MIYA	60029 60029	T L T L	
COMPOUND NO = 575 MOL WGT - 30 1.24 X10-3 M BB	30	589.5 1.24 X10-3 M	NICKEL DODECYL SULFATE BB	UNSPECIFIED CONDUCTANCE	SATA IWAM	63034	T 3	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/ D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
1. E-1 M NI S04	30	1.1 X10-3 M	BE	METHOD NOT CITED	SATA IWAM	63034	T	L
3 ENTRIES FOR COMPOUND	30	3. X10-4 M	BE	SURFACE TENSION LOG PLOT	SATA IWAM	63034	T	L
COMPOUND NO = 576 MOL WGT -	47	650.4 X10-4 M	BD	CUPRIC TETRADECYL SULFATE SURFACE TENSION LOG PLOT	SATA IWAM	63034	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 577 MOL WGT -	47	706.5 X10-5 M	BC	CUPRIC HEXADECYL SULFATE SURFACE TENSION LOG PLOT	SATA IWAM	63034	T	L
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 578 MOL WGT -	27	710.6 X10-3 M	ED	METHYL /OXYETHYLENE/ 11.9 DECANOATE FOTOMTR SOLUBLZTN SDN 4	NAKA KURI	57020	T	L
REDUCED POLYDISPERSITY OF HEAD GROUPS	27	1.40 X10-3 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA KURI	57020	T	L
	27	1.45 X10-3 M	EG	FOTOMTR SPCTR CHNG ERTS	NAKA KURI	57020	T	L
	27	1.4 X10-3 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA	58017	T	L
1. E 1 C 0579	27	1.1 X10-3 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA	58017	T	L
2.2 E 1 C 0579	27	8.5 X10-4 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA	58017	T	L
3. E 1 C 0579	27	7.0 X10-4 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA	58017	T	L
4. E 1 C 0579	27	5.4 X10-4 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA	58017	T	L
6. E 1 c 0879	27	4.4 X10-4 M	EC	FOTOMTR SPCTR CHNGE PNCN	NAKA	58017	T	L
7. E 1 C 0579	27	3.8 X10-4 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA	58017	T	L
10 ENTRIES FOR COMPOUND								
COMPOUND NO = 579 MOL WGT -	27	765.1 X10-4 M	EG	METHYL /OXYETHYLENE/ 12.5 DODECANOATE FOTOMTR SPCTR CHNGE PNCN	NAKA KURI	57020	T	L
REDUCED POLYDISPERSITY OF HEAD GROUPS	27	3.4 X10-4 M	EG	FOTOMTR SPCTR CHNG ERTS	NAKA KURI	57020	T	L
	27	2.8 X10-4 M	ED	FOTOMTR SOLUBLZTN SDN 4	NAKA KURI	57020	T	L
	27	3.4 X10-4 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA	58017	T	L
0578				SEE CMPD NMBR IN ADDITV	NAKA	58017		X
5 ENTRIES FOR COMPOUND								
COMPOUND NO = 580 MOL WGT -	27	494.7 X10-3 M	ED	METHYL /OXYETHYLENE/ 7.0 DECANOATE FOTOMTR SOLUBLZTN SDN 4	NAKA KURI	57020	T	L
REDUCED POLYDISPERSITY OF HEAD GROUPS	27	8.0 X10-4 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA KURI	57020	T	L
	27	9.5 X10-4 M	EG	FOTOMTR SPCTR CHNG ERTS	NAKA KURI	57020	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 581 MOL WGT -	27	640.1 X10-3 M	ED	METHYL /OXYETHYLENE/ 10.3 DECANOATE FOTOMTR SOLUBLZTN SDN 4	NAKA KURI	57020	T	L
REDUCED POLYDISPERSITY OF HEAD GROUPS	27	1.05 X10-3 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA KURI	57020	T	L
	27	1.15 X10-3 M	EG	FOTOMTR SPCTR CHNG ERTS	NAKA KURI	57020	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 582 MOL WGT -	27	891.3 X10-3 M	GG	METHYL /OXYETHYLENE/ 16.0 DECANOATE FOTOMTR SPCTR CHNGE PNCN	NAKA KURI	57020	T	L
NATURAL DISTRIBUTION OF HEAD GROUPS								
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 583 MOL WGT -	27	478.7 X10-4 M	ED	METHYL /OXYETHYLENE/ 6.0 DODECANOATE FOTOMTR SOLUBLZTN SDN 4	NAKA KURI	57020	T	L
REDUCED POLYDISPERSITY OF HEAD GROUPS	27	1.5 X10-4 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA KURI	57020	T	L
	27	2.0 X10-4 M	EG	FOTOMTR SPCTR CHNG ERTS	NAKA KURI	57020	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 584 MOL WGT -	27	584.5 X10-4 M	ED	METHYL /OXYETHYLENE/ 8.4 DODECANOATE FOTOMTR SOLUBLZTN SDN 4	NAKA KURI	57020	T	L
REDUCED POLYDISPERSITY OF HEAD GROUPS								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality; kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values – Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
	27	2.7 X10-4 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA KURI	57020	T	L
	27	2.7 X10-4 M	EG	FOTOMTR SPCTR CHNGE ERTS	NAKA KURI	57020	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 585 MOL WGT - 707.9 METHYL /OXYETHYLENE/ 11.2 DODECANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS								
	27	2.5 X10-4 M	ED	FOTOMTR SOLUBLZTN SDN 4	NAKA KURI	57020	T	L
	27	3.2 X10-4 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA KURI	57020	T	L
	27	3.1 X10-4 M	EG	FOTOMTR SPCTR CHNGE ERTS	NAKA KURI	57020	T	L
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 586 MOL WGT - 493.1 METHYL /OXYETHYLENE/ 7.6 OCTANOATE REDUCED POLYDISPERSITY OF HEAD GROUPS								
	10	2.00 X10-2 M	ED	FOTOMTR SOLUBLZTN SDN 4	NAKA INOU	58028	T	L
	11	1.25 X10-2 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA INOU	58028	T	L
	25	9.8 X10-3 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA INOU	58028	T	L
	25	1.48 X10-2 M	ED	FOTOMTR SOLUBLZTN SDN 4	NAKA INOU	58028	T	L
	40	8.2 X10-3 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA INOU	58028	T	L
	40	1.28 X10-2 M	ED	FOTOMTR SOLUBLZTN SDN 4	NAKA INOU	58028	T	L
	43	7.8 X10-3 M	EG	FOTOMTR SPCTR CHNGE PNCN	NAKA INOU	58028	T	L
	43	1.20 X10-2 M	ED	FOTOMTR SOLUBLZTN SDN 4	NAKA INOU	58028	T	L
8 ENTRIES FOR COMPOUND								
COMPOUND NO = 587 MOL WGT - 307.5 DECYL DIMETHYLAMMONIOPROPANE SULFONATE								
	30	1.20 X10 0 D	BB	TURBIDITY PLT LITE SCATR	HERR	66013	T	3
		3.902X10-2 M					M	
	30	1.1 X10 0 P	BD	DENSITY	BENJ	66040	T	L
		3.57 X10-2 S					M	
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 588 MOL WGT - 335.6 DODECYL DIMETHYLAMMONIOPROPANE SULFONATE								
	30	1.2 X10-1 D	BC	TURBIDITY PLT LITE SCATR	HERR	66013	T	3
		3.57 X10-3 M					M	
	30	1.2 X10-1 P	BD	DENSITY	BENJ	66040	T	L
		3.57 X10-3 S					M	
2. E-1 M NA CL	30	1.0 X10-1 D	BC	METHOD NOT CITED	HERR	66013	G	3
		2.97 X10-3 M					M	
1. E 0 M NA CL	30	5.8 X10-2 D	BC	METHOD NOT CITED	HERR	66013	G	3
		1.72 X10 3 M					M	
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 589 MOL WGT - 391.7 HEXADECYLDIMETHYLAMMONIOPROPANE SULFONATE								
	30	2.4 X10-3 D	BD	TURBIDITY PLT LITE SCATR	HERR	66013	T	L
		6.12 X10-5 M					M	
	30	1.2 X10-3 D	BD	SURFACE TENSION LOG PLOT	HERR	66013	T	L
		3.06 X10-5 M					M	
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 590 MOL WGT - 299.6 DODECYL DIMETHYLAMMONIOPROPANE CARBOXYLATE								
	30	1.6 X10-1 D	BC	TURBIDITY PLT LITE SCATR	HERR	66013	T	3
		5.34 X10-3 M					M	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 591 MOL WGT - 352.5 DODECYL DIMETHYLPHOSPHONIOPROPANE SULFONATE								
	30	8.5 X10-2 D	BC	TURBIDITY PLT LITE SCATR	HERR	66013	T	3
		2.41 X10-3 M					M	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 592 MOL WGT - 299.6 DODECYL N-DIETHYL N-BETAINE								
	30	8.4 X10-2 D	XC	METHOD NOT CITED	HERR	66013	T	L
		2.80 X10-3 M					M	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 593 MOL WGT - 351.6 DIMETHYL DODECYLAMMONIOPROPANE HYDROXY SULFONATE								
	30	7.0 X10-2 D	BC	METHOD NOT CITED	HERR	66013	T	3
		1.99 X10-3 M					M	
1 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Compounds	Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 594	MOL WGT -	391.7	DODECYL	DIPROPYL	AMMONIOPROPANE	SULFONATE			
		30	7.0 X10-2 D	BC	METHOD NOT CITED	HERR	66013	T	3
			1.78 X10-3 M					M	
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 595	MOL WGT -	351.6	DODECYL	DIMETHYL	AMMONIOPROPANE	SULFATE			
2. E-1 M	NA P-TOLUENE-S03	30	2.0 X10-2 D	BC	METHOD NOT CITED	HERR	66013	T	L
			5.68 X10-4 M					M	
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 596	MOL WGT -	353.6	TETRAHYDROANACARDOL	AMMONIUM	MONOSULFONATE				
		50	8. X10-3 D	XG	VELOCITY OF SOUND	KUPP SURY	65028	T	L
			2.2 X10-4 M					M	
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 597	MOL WGT -	346.5	SODIUM	DODECYL	MONO-OXYPROPYL	SULFATE			
		UNK	2.69 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	66003	T	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 598	MOL WGT -	374.5	SODIUM	TETRADECYL	MONO-OXYPROPYL	SULFATE			
		UNK	5.8 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	66003	T	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 599	MOL WGT -	432.6	SODIUM	TETRADECYL	DI-OXYPROPYL	SULFATE			
		UNK	3.6 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	66003	T	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 600	MOL WGT -	402.6	SODIUM	HEXADECYL	MONO-OXYPROPYL	SULFATE			
		UNK	1.6 X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	66003	T	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 601	MOL WGT -	430.6	SODIUM	OCTADECYL	MONO-OXYPROPYL	SULFATE			
		UNK	7. X10-5 M	CG	VISUAL SPCTR CHNGE PNCN	WEIL STIR	66003	T	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 602	MOL WGT -	280.4	ALPHA SULFO	LAURIC	ACID				
		UNK	1.30 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 603	MOL WGT -	344.4	SODIUM	PROPYL	ALPHA SULFO	LAURATE			
		UNK	5.3 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	T	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 604	MOL WGT -	344.4	SODIUM	METHYL	ALPHA SULFO	MYRISTATE			
		UNK	2.8 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	T	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 605	MOL WGT -	330.4	SODIUM	AMYL	ALPHAPHOSPHONO	PELARGONATE			
		UNK	1.82 X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	T	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 606	MOL WGT -	344.4	SODIUM	AMYL	ALPHAPHOSPHONO	CAPRATE			
		UNK	9.0 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	T	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 607	MOL WGT -	344.4	SODIUM	ISOPROPYL	ALPHAPHOSPHONO	LAURATE			
		UNK	6.68 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	T	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO = 608	MOL WGT -	344.4	SODIUM	METHYL	ALPHAPHOSPHONO	MYRISTATE			
		UNK	7.26 X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	T	L
	1 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Compounds	Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 609	MOL WGT -	400.5	SODIUM ISOPROPYL ALPHAPHOSPHONO PALMITATE						
		UNK 3.2	X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 610	MOL WGT -	400.5	SODIUM METHYL ALPHAPHOSPHONO STEARATE						
		UNK 2.9	X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	T	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 611	MOL WGT -	238.2	ALPHAPHOSPHONO PELARGONIC ACID						
		UNK 3.02	X10-2 M	CB	SURFACE TENSION UNSPEC	MAUR STIR	64002	LT	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 612	MOL WGT -	252.3	ALPHAPHOSPHONO DECANOIC ACID						
		UNK 1.35	X10-2 M	CB	SURFACE TENSION UNSPEC	MAUR STIR	64002	LT	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 613	MOL WGT -	280.3	ALPHAPHOSPHONO DODECANOIC ACID						
		UNK 2.5	X10-3 M	CC	SURFACE TENSION UNSPEC	MAUR STIR	64002	LT	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 614	MOL WGT -	308.4	ALPHAPHOSPHONO TETRADECANOIC ACID						
		UNK 5.8	X10-4 M	CB	SURFACE TENSION UNSPEC	MAUR STIR	64002	LT	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 615	MOL WGT -	336.5	ALPHAPHOSPHONO HEXADECANOIC ACID						
		UNK 8.9	X10-3 M	CB	SURFACE TENSION UNSPEC	MAUR STIR	64002	LT	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 616	MOL WGT -	274.3	MONOSODIUM ALPHAPHOSPHONO DECANOATE						
		UNK 4.89	X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 617	MOL WGT -	302.3	MONOSODIUM ALPHAPHOSPHONO DODECANOATE						
		UNK 1.10	X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 618	MOL WGT -	330.4	MONOSODIUM ALPHAPHOSPHONO TETRADECANOATE						
		UNK 2.50	X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 619	MOL WGT -	358.4	MONOSODIUM ALPHAPHOSPHONO HEXADECANOATE						
		UNK 5.2	X10-4 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 620	MOL WGT -	324.3	DISODIUM ALPHAPHOSPHONO DODECANOATE						
		UNK 3.06	X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 621	MOL WGT -	352.4	DISODIUM ALPHAPHOSPHONO TETRADECANOATE						
		UNK 1.46	X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 622	MOL WGT -	380.4	DISODIUM ALPHAPHOSPHONO HEXADECANOATE						
		UNK 6.7	X10-3 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 623	MOL WGT -	408.5	DISODIUM ALPHAPHOSPHONO OCTADECANOATE						
		UNK 2.9	X10-3 M	CC	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L	L
1 ENTRIES FOR COMPOUND									
COMPOUND NO = 624	MOL WGT -	374.3	TRISODIUM ALPHAPHOSPHONO TETRADECANOATE						
		UNK 3.02	X10-2 M	CG	VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L	L
1 ENTRIES FOR COMPOUND									

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.
D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

Complete Table of Critical Micelle Concentration Values – Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 625 1 ENTRIES FOR COMPOUND	MOL WGT - UNK	402.4 1.62	TRISODIUM X10-2 M	ALPHAPHOSPHONO CG	HEXADECANOATE VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L L
COMPOUND NO = 626 1 ENTRIES FOR COMPOUND	MOL WGT - UNK	430.5 8.2	TRISODIUM X10-3 M	ALPHAPHOSPHONO CG	OCTADECANOATE VISUAL SPCTR CHNGE PNCN	MAUR STIR	64002	L L
COMPOUND NO = 627 1 ENTRIES FOR COMPOUND	MOL WGT - 25	332.2 2.5	CESIUM X10-2 M	DODECANOATE XG	VISUAL SPCTR CHNGE	KLEV	53010	T L
COMPOUND NO = 628 1 ENTRIES FOR COMPOUND	MOL WGT - 30	266.3 1.2	DODECYLAMMONIUM X10-2 M	BROMIDE XG	VISUAL SPCTR CHNGE	KLEV	53010	T L
COMPOUND NO = 629 1 ENTRIES FOR COMPOUND	MOL WGT - 50	320.6 1.5	POTASSIUM X10-3 M	ELAIDATE/TRANS-9-OCTADECENOATE/ XC	REFRACTIVE INDEX	KLEV	53010	T L
COMPOUND NO = 630 1 ENTRIES FOR COMPOUND	MOL WGT - 55	336.6 3.6	POTASSIUM X10-3 M	RICINOLEATE/12 HYDROXY OLEATE/ XC	REFRACTIVE INDEX	KLEV	53010	T L
COMPOUND NO = 631 1 ENTRIES FOR COMPOUND	MOL WGT - 55	336.6 5.5	POTASSIUM X10-3 M	RICINELAIDATE/12 HYDROXY ELAIDATE/ XB	REFRACTIVE INDEX	KLEV	53010	T L
COMPOUND NO = 632 2 ENTRIES FOR COMPOUND	MOL WGT - 35 50	295.6 2.6 3.0	POTASSIUM N-DODECYL X10-3 M X10-3 M	BETA-ALANINATE XC XC	REFRACTIVE INDEX REFRACTIVE INDEX	KLEV KLEV	53010 53010	T L T L
COMPOUND NO = 633 1 ENTRIES FOR COMPOUND	MOL WGT - 30	292.9 1.0	N-DODECYL X10-2 M	BETA-ALANINE HYDROCHLORIDE XC	REFRACTIVE INDEX	KLEV	53010	T L
COMPOUND NO = 634 6.75 E-2 M NA CL 3 ENTRIES FOR COMPOUND	MOL WGT - 40 50 40	304.5 7.8 5.2 1.5	POTASSIUM DODECYL X10-3 M X10-3 M X10-3 M	SULFATE CB DG CG	SPECFC CONDUCTNCE GRAPH VISUAL SPCTR CHNGE PNCN FOTOMTR SPCTR CHNGE RHD6	MEGU KOND RAIS MEGU KOND	56020 52016 56020	T 3 T L T L
COMPOUND NO = 635 1 ENTRIES FOR COMPOUND	MOL WGT - 50	256.3 1.00	LITHIUM X10-2 M	DODECYL SULFONATE DG	VISUAL SPCTR CHNGE PNCN	RAIS	52016	T L
COMPOUND NO = 636 1 ENTRIES FOR COMPOUND	MOL WGT - 50	304.4 3.0	SODIUM X10-3 M	DODECYL THIOSULFATE DG	VISUAL SPCTR CHNGE PNCN	RAIS	52016	T L
COMPOUND NO = 637 1 ENTRIES FOR COMPOUND	MOL WGT - 50	300.4 1.64	LITHIUM X10-3 M	TETRADECYL SULFATE DG	VISUAL SPCTR CHNGE PNCN	RAIS	52016	T L
COMPOUND NO = 638 1 ENTRIES FOR COMPOUND	MOL WGT - 50	328.4 2.9	LITHIUM X10-4 M	HEXADECYL SULFATE DG	VISUAL SPCTR CHNGE PNCN	RAIS	52016	T L
COMPOUND NO = 639 1 ENTRIES FOR COMPOUND	MOL WGT - 50	290.3 7.0	SODIUM X10-3 M	UNDECYL THIOSULFATE DG	VISUAL SPCTR CHNGE PNCN	RAIS	52016	T L

Concentration units: A – mol %; B – vol % solvent; C – mol % surfactant mixture; D – wt/vol %; E – % saturation; H – wt % solvent; I – mol % surfactant; K – normality counterions; M – molar; N – normal; P – wt %; Q – wt % surfactant; R – varied; S – mol/kg; T – wt % surfactant mixture; U – mol/(l or kg); W – molar; Y – atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 640 1 ENTRIES FOR COMPOUND	MOL WGT - 25	325.5 1.1	HEXYL TRIMETHYLAMMONIUM X10-1 M	BC	TRIMETHYLAMMONIUM HEXANE SULFATE METHOD NOT CITED	CORK GOOD	66014	T 3
COMPOUND NO = 641 1.00 E 2 I NA BR 1 ENTRIES FOR COMPOUND	MOL WGT - 25	353.6 2.7	HEXYL TRIMETHYLAMMONIUM X10-2 M	BC	TRIMETHYLAMMONIUM OCTANE SULFATE METHOD NOT CITED	CORK GOOD	66014	T 3
COMPOUND NO = 642 1 ENTRIES FOR COMPOUND	MOL WGT - 25	409.7 1.9	OCTYL TRIMETHYLAMMONIUM X10-3 M	BC	TRIMETHYLAMMONIUM DECANE SULFATE METHOD NOT CITED	CORK GOOD	66014	T 3
COMPOUND NO = 643 1.00 E 2 I NA BR 1 ENTRIES FOR COMPOUND	MOL WGT - 25	437.8 4.5	DODECYL TRIMETHYLAMMONIUM X10-4 M	BC	TRIMETHYLAMMONIUM OCTANE SULFATE METHOD NOT CITED	CORK GOOD	66014	T 3
COMPOUND NO = 644 1 ENTRIES FOR COMPOUND	MOL WGT - 25	309.5 2.2	HEXYL TRIMETHYLAMMONIUM X10-1 M	BC	TRIMETHYLAMMONIUM HEXANE SULFONATE METHOD NOT CITED	CORK GOOD	66014	T L
COMPOUND NO = 645 1 ENTRIES FOR COMPOUND	MOL WGT - 25	268.3 5.0	PARA/BETA-D-GLUCOSYL/ X10-1 M	CE	ETHYLBENZENE SURFACE TENSION LOG PLOT	HUTC SHEA	64037	T L
COMPOUND NO = 646 1 ENTRIES FOR COMPOUND	MOL WGT - 25	282.4 1.3	PARA/BETA-D-GLUCOSYL/ X10-1 M	CC	PROPYL BENZENE SURFACE TENSION LOG PLOT	HUTC SHEA	64037	T L
COMPOUND NO = 647 1 ENTRIES FOR COMPOUND	MOL WGT - 25	296.4 5.	PARA/BETA-D-GLUCOSYL/ X10-2 M	CD	BUTYLBENZENE SURFACE TENSION LOG PLOT	HUTC SHEA	64037	T L
COMPOUND NO = 648 2 ENTRIES FOR COMPOUND	MOL WGT - 25 50	276.4 7.9 7.1	ALPHA-D-GLUCOSYL X10-3 M X10-3 M	CC CC	OCTANE SURFACE TENSION LOG PLOT SURFACE TENSION LOG PLOT	HUTC SHEA HUTC SHEA	64037 64037	T L T L
COMPOUND NO = 650 1 ENTRIES FOR COMPOUND	MOL WGT - 25	266.4 6.	PARA/BETA-D-XYLOSYL/ X10-4 M	CD	BUTYL BENZENE SURFACE TENSION LOG PLOT	HUTC SHEA	64037	T L
COMPOUND NO = 651 2 ENTRIES FOR COMPOUND	MOL WGT - 25 30	.0 1.1 7.5	EMASOL 1120 X10-2 M X10-1 D	CC HG	/ALKYL POLYOXYETHYLENE SORBITAN ESTER/ SURFACE TENSION LOG PLOT VISCOSITY MINIMUM	HUTC SHEA OKUY TYUZ	64037 54008	T L T L
COMPOUND NO = 652 1 ENTRIES FOR COMPOUND	MOL WGT - 30	.0 5.0	EMASOL 1130 X10-1 D	HG	/ALKYL POLYOXYETHYLENE SORBITAN ESTER/ VISCOSITY MINIMUM	OKUY TYUZ	54008	T L
COMPOUND NO = 653 1 ENTRIES FOR COMPOUND	MOL WGT - 30	.0 3.1	EMULGEN 120 X10-1 D	HG	/ALKYL POLYOXYETHYLENE ETHER/ VISCOSITY MINIMUM	OKUY TYUZ	54008	T L
COMPOUND NO = 654 5.01 E 0 H METHANOL 1.227E 1 H METHANOL 1.508E 1 H METHANOL 1.985E 1 H METHANOL 2.589E 1 H METHANOL 3.463E 1 H METHANOL 7 ENTRIES FOR COMPOUND	MOL WGT - 25 25 25 25 25 25	374.7 2.3 1.76 3.28 4.37 5.93 1.10 3.03	OCTADECYL TRIMETHYLAMMONIUM X10-4 M X10-4 M X10-4 M X10-4 M X10-4 M X10-3 M X10-3 M	BE BA BB BB BA BA BB	TRIMETHYLAMMONIUM NITRATE EQUIV CONDCTNCE GRAPH EQUIV CONDCTNCE GRAPH EQUIV CONDCTNCE GRAPH EQUIV CONDCTNCE GRAPH EQUIV CONDCTNCE GRAPH EQUIV CONDCTNCE GRAPH EQUIV CONDCTNCE GRAPH	GRIE KRAU EVER KRAU EVER KRAU EVER KRAU EVER KRAU EVER KRAU EVER KRAU	48010 48028 48028 48028 48028 48028 48028	T L P 2 P 3 P 3 P 2 P 2 P 2 P 3

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 655 MOL WGT -	368.1	OCTADECYL PYRIDINIUM CHLORIDE						
	25	2.4 X10 ⁻⁴ M	BB	EQUIV CONDUCTNCE GRAPH	GRIE KRAU	48010	T L	
	25	2.40 X10 ⁻⁴ M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P 3	
	25	2.54 X10 ⁻⁴ M	BC	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 656 MOL WGT -	394.7	OCTADECYL PYRIDINIUM NITRATE						
2.0 E 1 H METHANOL	25	1.28 X10 ⁻⁴ M	RR	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	T 3	
2 ENTRIES FOR COMPOUND	25	5.76 X10 ⁻⁴ M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P 3	
COMPOUND NO = 657 MOL WGT -	412.6	OCTADECYL PYRIDINIUM BROMIDE						
2.0 E 1 H METHANOL	25	6.10 X10 ⁻⁴ M	BB	EQUIV CONDUCTNCE GRAPH	EVER KRAU	48028	P 3	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 658 MOL WGT -	440.6	OCTADECYL TRIMETHYLAMMONIUM BROMATE						
	25	3.1 X10 ⁻⁴ M	BG	EQUIV COND 1ST DEVIATION	GRIE KRAU	48010	T L	
	25	3.31 X10 ⁻⁴ M	BB	EQUIV CONDUCTNCE GRAPH	GRIE KRAU	48010	P 3	
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 659 MOL WGT -	357.7	OCTADECYL TRIMETHYLAMMONIUM FORMATE						
	25	4.4 X10 ⁻⁴ M	BC	EQUIV CONDUCTNCE GRAPH	GRIE KRAU	48010	T 3	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 660 MOL WGT -	479.5	HEXADECYL PYRIDINIUM IODATE						
	25	1.6 X10 ⁻³ M	BG	EQUIV CONDUCTNCE MAXIMUM	BROW GRIE	49014	T L	
	25	9.9 X10 ⁻⁴ M	BG	EQUIV COND MAX BEGINING	BROW GRIE	49014	T L	
7.9 E 0 H TERTIARY BUTANOL	25	1.35 X10 ⁻⁴ M	BG	EQUIV COND MAX BEGINING	BROW GRIE	49014	T L	
7.9 E 0 H TERTIARY BUTANOL	25	9. X10 ⁻⁴ M	BG	EQUIV CONDUCTNCE MAXIMUM	BROW GRIE	49014	T L	
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 661 MOL WGT -	507.6	OCTADECYL PYRIDINIUM IODATE						
	25	5. X10 ⁻⁴ M	BG	EQUIV CONDUCTNCE MAXIMUM	BROW GRIE	49014	T L	
	25	9. X10 ⁻⁵ M	BG	EQUIV COND MAX BEGINING	BROW GRIE	49014	T L	
1.62 E 1 H METHANOL	25	8. X10 ⁻⁴ M	BG	EQUIV CONDUCTNCE MAXIMUM	BROW GRIE	49014	T L	
1.62 E 1 H METHANOL	25	2.9 X10 ⁻⁴ M	BG	EQUIV COND MAX BEGINING	BROW GRIE	49014	T L	
4 ENTRIES FOR COMPOUND								
COMPOUND NO = 662 MOL WGT -	482.7	OCTADECYL TRIETHYLAMMONIUM BROMATE						
	25	2.5 X10 ⁻⁴ M	BC	EQUIV CONDUCTNCE GRAPH	MCDO KRAU	51009	T 3	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 663 MOL WGT -	524.8	OCTADECYL TRIPROPYLAMMONIUM BROMATE						
	25	1.25 X10 ⁻⁴ M	BG	EQUIV COND MAX BEGINING	MCDO KRAU	51009	T L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 664 MOL WGT -	566.9	OCTADECYL TRIBUTYLAMMONIUM BROMATE						
	25	5.3 X10 ⁻⁵ M	BG	EQUIV COND MAX BEGINING	MCDO KRAU	51009	TK L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 665 MOL WGT -	608.9	OCTADECYL TRIAMYLAMMONIUM BROMATE						
	25	1.6 X10 ⁻⁵ M	BG	EQUIV COND MAX BEGINING	MCDO KRAU	51009	TK L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 666 MOL WGT -	538.8	HEXADECYL TRIBUTYLAMMONIUM BROMATE						
	25	3.3 X10 ⁻⁴ M	BG	EQUIV COND MAX BEGINING	MCDO KRAU	51009	TK L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 667 MOL WGT -	713.4	OCTADECYL TRIMETHYLAMMONIUM OXALATE						
	25	6.4 X10 ⁻⁵ M	BE	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	T L	
9.91 E 0 H ACETONE	25	1.44 X10 ⁻⁴ M	BG	EQUIV COND 1ST DEVIATION	YOUN GRIE	49017	T L	
9.91 E 0 H ACETONE	25	1.61 X10 ⁻⁴ M	BB	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P 3	
1.39 E 1 H ACETONE	25	2.56 X10 ⁻⁴ M	BG	EQUIV COND 1ST DEVIATION	YOUN GRIE	49017	T L	
1.39 E 1 H ACETONE	25	2.56 X10 ⁻⁴ M	BB	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P 3	
2.07 E 1 H ACETONE	25	5.29 X10 ⁻⁴ M	DG	EQUIV COND 1ST DEVIATION	YOUN CRTZ	49017	T L	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
2.07 E 1 H ACETONE	25	6.50 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
2.88 E 1 H ACETONE	25	1.30 X10-3 M	BG	EQUIV COND 1ST DEVIATION	YOUN GRIE	49017	T	L
2.88 E 1 H ACETONE	25	1.94 X10-3 M	BC	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
2.07 E 1 H METHANOL	25	2.50 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
2.07 E 1 H METHANOL	25	2.70 X10-4 M	BE	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	T	L
3.02 E 1 H METHANOL	25	6.8 X10-4 M	BE	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	T	L
3.02 E 1 H METHANOL	25	6.25 X10-4 M	BB	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
4.01 E 1 H METHANOL	25	1.76 X10-3 M	BE	EQUIV COND 1ST DEVIATION	YOUN GRIE	49017	T	L
4.01 E 1 H METHANOL	25	2.20 X10-3 M	BC	EQUIV CONDUCTNCE GRAPH	YOUN GRIE	49017	P	3
15 ENTRIES FOR COMPOUND								
COMPOUND NO = 668	MOL WGT -	292.5	DIPOTASSIUM OCTYL MALONATE					
		20	3.0	X10-1 M	BC	SURFACE TENSION UNSPEC	SHIN	55007 T 3
		25	3.5	X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 T L
7.6 E-1 K K ION		25	3.2	X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
7.7 E-1 K K ION		25	3.0	X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
8.2 E-1 K K ION		25	2.8	X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
9.2 E-1 K K ION		25	2.6	X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
1.00 E 0 K K ION		25	2.3	X10-1 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
7 ENTRIES FOR COMPOUND								
COMPOUND NO = 669	MOL WGT -	320.5	DIPOTASSIUM DECYL MALONATE					
		25			BG	THEORETICALLY ESTIMATED	SHIN	55007 T R
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 670	MOL WGT -	348.6	DIPOTASSIUM DODECYL MALONATE					
		20	4.8	X10-2 M	BC	SURFACE TENSION UNSPEC	SHIN	55007 T L
		20	4.8	X10-2 M	BG	FOTOMTR SPCTR CHNGE PNCN	SHIN	55007 T L
		25	4.8	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 T L
		25	5.0	X10-2 M	BB	FOTOMTR SOLUBLZTN 2NFA	SHIN	55007 T 3
1.10 E-1 K K ION		25	4.2	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
1.16 E-1 K K ION		25	3.9	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
1.31 E-1 K K ION		25	3.4	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
1.58 E-1 K K ION		25	2.6	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
1.89 E-1 K K ION		25	2.1	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
2.17 E-1 K K ION		25	1.9	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
2.56 E-1 K K ION		25	1.6	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
3.08 E-1 K K ION		25	1.3	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
3.48 E-1 K K ION		25	1.1	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
13 ENTRIES FOR COMPOUND								
COMPOUND NO = 671	MOL WGT -	376.7	DIPOTASSIUM TETRADECYL MALONATE					
		20	1.9	X10-2 M	BC	SURFACE TENSION UNSPEC	SHIN	55007 T L
		25	1.7	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 T L
		25	1.8	X10-2 M	BC	FOTOMTR SOLUBLZTN 2NFA	SHIN	55007 T 3
3.7 E-2 K K ION		25	1.5	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
4.0 E-2 K K ION		25	1.4	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
4.5 E-2 K K ION		25	1.2	X10-2 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
5.4 E-2 K K ION		25	9.6	X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
7.0 E-2 K K ION		25	7.1	X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
9.7 E-2 K K ION		25	5.4	X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
1.23 E-1 K K ION		25	4.4	X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
10 ENTRIES FOR COMPOUND								
COMPOUND NO = 672	MOL WGT -	404.7	DIPOTASSIUM HEXADECYL MALONATE					
		20	9.	X10-3 M	BD	SURFACE TENSION UNSPEC	SHIN	55007 T L
		25	6.3	X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 T L
F.48 E-2 K K ION		25	5.5	X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
1.86 E-2 K K ION		25	4.4	X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
2.23 E-2 K K ION		25	3.2	X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
2.97 E-2 K K ION		25	2.2	X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
4.75 E-2 K K ION		25	1.5	X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 G L
7 ENTRIES FOR COMPOUND								
COMPOUND NO = 673	MOL WGT -	432.8	DIPOTASSIUM OCTADECYL MALONATE					
		25	2.3	X10-3 M	BG	VISUAL SPCTR CHNGE PNCN	SHIN	55007 T L
1 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions: M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molar; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 674 MOL WGT - BRANCHED CHAIN, NATURAL OE DISTRIBUTION	470.7	DIISOBUTYL BENZENE/OXYETHYLENE/6 ALCOHOL	(DB)					
	20	1.8 X10-3 M	HG	VISUAL SPCTR CHNGE PNCN	TAUB KONS	60033	T L	
	20	1.4 X10-3 M	HG	FOTOMTR SPCTR CHNGE PNCN	TAUB KONS	60033	T L	
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 675 MOL WGT - NATURAL DISTRIBUTION OF HEAD GROUPS	647.0	OCTYL BENZENE /OXYETHYLENE/10 ALCOHOL						
	20	4.9 X10-4 M	HG	VISUAL SPCTR CHNGE PNCN	TAUB KONS	60033	T L	
	20	3.8 X10-4 M	HG	FOTOMTR SPCTR CHNGE PNCN	TAUB KONS	60033	T L	
2 ENTRIES FOR COMPOUND								
COMPOUND NO = 676 MOL WGT -	292.3	SODIUM 1,1,3,3-TETRAMETHYL BUTYL BENZENE SULFONATE						
	20	8.4 X10-3 M	XG	VISUAL SPCTR CHNGE PNCN	TAUB KONS	60033	T L	
	20	1.00 X10-2 M	XG	VISUAL SPCTR CHNGE RHD6	TAUB KONS	60033	T L	
	40	8.4 X10-3 M	XC	UNSPECIFIED CONDUCTANCE	TAUB KONS	60033	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 677 MOL WGT -	404.6	SODIUM DI-/1,1,3,3-TETRAMETHYL BUTYL/BENZENESULFONATE						
	20	1.0 X10-3 M	XG	VISUAL SPCTR CHNGE PNCN	TAUB KONS	60033	T L	
	20	1.0 X10-3 M	XG	VISUAL SPCTR CHNGE RHD6	TAUB KONS	60033	T L	
	40	9. X10-4 M	XD	UNSPECIFIED CONDUCTANCE	TAUB KONS	60033	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 678 MOL WGT -	334.4	SODIUM 1,1-DIMETHYLNONYL BENZENE SULFONATE						
	20	3.0 X10-3 M	XG	VISUAL SPCTR CHNGE PNCN	TAUB KONS	60033	T L	
	20	2.4 X10-3 M	XG	VISUAL SPCTR CHNGE RHD6	TAUB KONS	60033	T L	
	40	3.3 X10-3 M	XC	UNSPECIFIED CONDUCTANCE	TAUB KONS	60033	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 679 MOL WGT -	334.4	SODIUM 3-BUTYL HEPTYL BENZENE SULFONATE						
	20	2.7 X10-3 M	XG	VISUAL SPCTR CHNGE RHD6	TAUB KONS	60033	T L	
	20	3.3 X10-3 M	XG	VISUAL SPCTR CHNGE PNCN	TAUB KONS	60033	T L	
	40	3.3 X10-3 M	XC	UNSPECIFIED CONDUCTANCE	TAUB KONS	60033	T L	
3 ENTRIES FOR COMPOUND								
COMPOUND NO = 680 MOL WGT -	348.5	SODIUM 2-PROPYL-4-METHYL-OCTYL BENZENE SULFONATE						
	20	1.7 X10-3 M	XG	VISUAL SPCTR CHNGE PNCN	TAUB KONS	60033	T L	
	20	1.7 X10-3 M	XG	VISUAL SPCTR CHNGE RHD6	TAUB KONS	60033	T L	
	40	1.6 X10-3 M	XD	UNSPECIFIED CONDUCTANCE	TAUB KONS	60033	T L	
	20	1.1 X10-3 M	XG	VISUAL SPCTR CHNGE PNCN	TAUB KONS	60033	T L	
1.33 E 2 Q NA2 S04								
1.33 E 2 Q NA2 S103 META								
1.33 E 2 Q NA2 C03								
1.33 E 2 Q NA2 S04								
1.33 E 2 Q NA2 S103 META								
1.33 E 2 Q NA2 C03								
1.33 E 2 Q NA2 S04								
1.33 E 2 Q NA2 S103 META								
1.33 E 2 Q NA2 C03								
6 ENTRIES FOR COMPOUND								
COMPOUND NO = 681 MOL WGT -	292.3	SODIUM DIBUTYL BENZENE SULFONATE						
	UNK	1.6 X10-4 M	CD	TURBIDITY PLT LITE SCATR	YURZ KUCH	52018	T L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 682 MOL WGT -	342.4	SODIUM DIBUTYL NAPHTHALENE SULFONATE	/NEKAL/					
	UNK	2.9 X10-4 M	HC	TURBIDITY PLT LITE SCATR	YURZ KUCH	52018	T L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 683 MOL WGT -	460.7	SODIUM EICOSYLBENZENE SULFONATE						
	UNK	1.7 X10-5 M	HE	TURBIDITY PLT LITE SCATR	YURZ KUCH	52018	T L	
1 ENTRIES FOR COMPOUND								
COMPOUND NO = 684 MOL WGT -	178.3	HEXYL SULFINYLETHANOL						
	25	2.5 X10-1 W	BD	VAPR PRESURE LOWERING	CORK GOOD	66015	E L	
1 ENTRIES FOR COMPOUND								

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/ D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality kg; T—wt % surfactant mixture; U—mol/l (or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values – Continued

Additives		Temp. °C	CMC	Qual. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO =	685 MOL WGT -	192.3	HEXYL SULFINYLPROPANOL						
		25 2.5	X10-1 W	BD	VAPR PRESURE LOWERING	CORK GOOD	66015	E	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO =	686 MOL WGT -	206.3	HEXYL SULFINYLBUTANOL						
		25 2.1	X10-1 W	BD	VAPR PRESURE LOWERING	CORK GOOD	66015	E	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO =	687 MOL WGT -	220.4	HEXYL SULFINYLPENTANOL						
		25 1.8	X10-1 W	BD	VAPR PRESURE LOWERING	CORK GOOD	66015	E	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO =	688 MOL WGT -	206.3	OCTYL SULFINYLETHANOL						
		25 2.3	X10-2 W	BD	SURFACE TENSION LOG PLOT	CORK GOOD	66015	E	L
		40 2.1	X10-2 W	BD	SURFACE TENSION LOG PLOT	CORK GOOD	66015	E	L
	2 ENTRIES FOR COMPOUND								
COMPOUND NO =	689 MOL WGT -	220.4	OCTYL SULFINYLPROPANOL						
		25 2.0	X10-2 W	BD	SURFACE TENSION LOG PLOT	CORK GOOD	66015	E	L
		40 1.8	X10-2 W	BD	SURFACE TENSION LOG PLOT	CORK GOOD	66015	E	L
	2 ENTRIES FOR COMPOUND								
COMPOUND NO =	690 MOL WGT -	234.4	OCTYL SULFINYLBUTANOL						
		25 2.0	X10-2 W	BD	SURFACE TENSION LOG PLOT	CORK GOOD	66015	E	L
		40 1.8	X10-2 W	BD	SURFACE TENSION LOG PLOT	CORK GOOD	66015	E	L
	2 ENTRIES FOR COMPOUND								
COMPOUND NO =	691 MOL WGT -	176.3	OCTYL METHYL SULFOXIDE						
		25 2.3	X10-2 W	BD	SURFACE TENSION LOG PLOT	CORK GOOD	66015	E	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO =	692 MOL WGT -	234.4	DECYL SULFINYLETHANOL						
		25 1.6	X10-3 W	BD	SURFACE TENSION LOG PLOT	CORK GOOD	66015	E	L
	1 ENTRIES FOR COMPOUND								
COMPOUND NO =	693 MOL WGT -	354.1	N-CETYL 2-METHYL PYRIDINIUM CHLORIDE						
					QUESTIONABLE CRITERION	ANGE NICO	61029		R
	1 ENTRIES FOR COMPOUND								
COMPOUND NO =	694 MOL WGT -	354.1	N-CETYL 3-METHYL PYRIDINIUM CHLORIDE						
					QUESTIONABLE CRITERION	ANGE NICO	61029		R
	1 ENTRIES FOR COMPOUND								
COMPOUND NO =	695 MOL WGT -	354.1	N-CETYL 4-METHYL PYRIDINIUM CHLORIDE						
		20 7.	X10-2 D	GE	KRAFFT POINT SOLUBILITY	ANGE NICO	61029	T	L
			1.9	X10-3 M					M
	1 ENTRIES FOR COMPOUND								
COMPOUND NO =	696 MOL WGT -	445.5	N-CETYL 2-METHYL PYRIDINIUM IODIDE						
		65 4.	X10-3 D	GE	KRAFFT POINT SOLUBILITY	ANGE NICO	61029	T	L
			8.9	X10-5 M					M
	1 ENTRIES FOR COMPOUND								
COMPOUND NO =	697 MOL WGT -	445.5	N-CETYL-3-METHYL PYRIDINIUM IODIDE						
		34 2.	X10-3 D	GE	KRAFFT POINT SOLUBILITY	ANGE NICO	61029	T	L
			4.4	X10-5 M					M
	1 ENTRIES FOR COMPOUND								
COMPOUND NO =	698 MOL WGT -	445.5	N-CETYL-4-METHYL PYRIDINIUM IODIDE						
		30 8.	X10-2 D	GE	KRAFFT POINT SOLUBILITY	ANGE NICO	61029	T	L
			1.7	X10-3 M					M
	1 ENTRIES FOR COMPOUND								

Concentration units: A – mol %; B – vol % solvent; C – mol % surfactant mixture; D – wt/vol %; E – % saturation; H – wt % solvent; I – mol % surfactant; K – normality counterions; M – molar; N – normal; P – wt %; Q – wt % surfactant; R – varied; S – mol/kg; T – wt % surfactant mixture; U – mol/(l or kg); W – molar; Y – atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source	Evaluation
COMPOUND NO = 699 MOL WGT - 1 ENTRIES FOR COMPOUND	110.1 UNK	3.5	X10 0 M	XG	SODIUM BUTYRATE METHOD NOT CITED	KLEV RAIS 54004	T L	
COMPOUND NO = 700 MOL WGT - 1 ENTRIES FOR COMPOUND	116.2 UNK	1.	X10-1 M	XG	HEXANOIC ACID METHOD NOT CITED	KLEV RAIS 54004	T L	
COMPOUND NO = 701 MOL WGT - 1 ENTRIES FOR COMPOUND	352.2 UNK	5.	X10-1 M	XG	POTASSIUM PERFLUROHEXANOATE METHOD NOT CITED	KLEV RAIS 54004	T L	
COMPOUND NO = 702 MOL WGT - 1 ENTRIES FOR COMPOUND	552.2 UNK	9.	X10-4 M	XG	POTASSIUM PERFLURODECANOATE METHOD NOT CITED	KLEV RAIS 54004	T L	
COMPOUND NO = 703 MOL WGT - E 0 PH OF SOLUTION 2 ENTRIES FOR COMPOUND	194.3 UNK	4.	X10-3 M	XG	4-HEXYL RESORCINOL METHOD NOT CITED GRAPH DATA NOT RETRIEVED	KLEV RAIS 54004 KLEV RAIS 54004	T L R	
COMPOUND NO = 704 MOL WGT - 1 ENTRIES FOR COMPOUND	232.4 UNK	3.8	X10-2 M	XG	POTASSIUM 4-HEXYL RESORCINOLATE METHOD NOT CITED	KLEV RAIS 54004	T L	
COMPOUND NO = 705 MOL WGT - 1 ENTRIES FOR COMPOUND	266.4 UNK	6.2	X10-3 M	XG	DODECYL SULFURIC ACID METHOD NOT CITED	KLEV RAIS 54004	T L	
COMPOUND NO = 706 MOL WGT - 1 ENTRIES FOR COMPOUND	185.1 UNK	1.32	X10-1 M	XG	PERFLURO PROPYLAMINE METHOD NOT CITED	KLEV RAIS 54004	T L	
COMPOUND NO = 707 MOL WGT - 1 ENTRIES FOR COMPOUND	221.5 UNK	1.1	X10 0 M	XG	PERFLURO PROPYLAMINE HYDROCHLORIDE METHOD NOT CITED	KLEV RAIS 54004	T L	
COMPOUND NO = 708 MOL WGT - 1 ENTRIES FOR COMPOUND	101.2 UNK	0.4	X10-2 M	XG	HEXYLAMINE METHOD NOT CITED	KLEV RAIS 54004	T L	
COMPOUND NO = 709 MOL WGT - 1 ENTRIES FOR COMPOUND	137.7 UNK	9.	X10-1 M	XG	HEXYLAMINE HYDROCHLORIDE METHOD NOT CITED	KLEV RAIS 54004	T L	
COMPOUND NO = 710 MOL WGT - 3 ENTRIES FOR COMPOUND	190.3 30	7.7 4.04 7.9 4.15 8. 4.2	X10-1 D X10-2 M X10-1 D X10-2 M X10-1 P X10-2 S	BB BB BB BD	OCTYL DIMETHYL PHOSPHINE OXIDE TURBIDITY PLT LITE SCATR SURFACE TENSION LOG PLOT DENSITY	HERR BRUS 66039 HERR BRUS 66039 BENJ 66040	T 3 M T L M T L M	
COMPOUND NO = 711 MOL WGT - 3 ENTRIES FOR COMPOUND	218.4 30	1.0 4.57 8.2 3.75 7. 3.2	X10-1 D X10-3 M X10-2 D X10-3 M X10-2 P X10-3 S	BD BB BD	DECYL DIMETHYL PHOSPHINE OXIDE TURBIDITY PLT LITE SCATR SURFACE TENSION LOG PLOT DENSITY	HERR BRUS 66039 HERR BRUS 66039 BENJ 66040	T L M T L M T L M	
COMPOUND NO = 712 MOL WGT - 3 ENTRIES FOR COMPOUND	246.4 1 30	2.0 8.11 1.4 5.68	X10-2 D X10-4 M X10-2 D X10-4 M	BC BD	DODECYL DIMETHYL PHOSPHINE OXIDE TURBIDITY PLT LITE SCATR TURBIDITY PLT LITE SCATR	HERR BRUS 66039 HERR BRUS 66039	T 3 M T 3 M	

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

Complete Table of Critical Micelle Concentration Values—Continued

Additives	Temp. °C	CMC	Qual. Mat. Meth.	Method	Authors	Reference	Source Evaluation
3 ENTRIES FOR COMPOUND	30	8. X10-3 D 3.2 X10-4 M	BD	SURFACE TENSION LOG PLOT	HERR BRUS	66039	T L M
COMPOUND NO = 713 MOL WGT -	215.4	UNDECYL	DIMETHYL AMINE OXIDE				
1 ENTRIES FOR COMPOUND	30	1.3 X10-1 P 6.03 X10-3 S	BD	DENSITY	BENJ	66040	T L M
COMPOUND NO = 714 MOL WGT -	145.3	HEXYL	DIMETHYL AMINE OXIDE				
1 ENTRIES FOR COMPOUND	UNK	3.0 X10 1 P 2.06 X10 0 S	BE	METHOD NOT CITED	BENJ	66040	T L M
COMPOUND NO = 715 MOL WGT -	159.3	HEPTYL	DIMETHYL AMINE OXIDE				
1 ENTRIES FOR COMPOUND	UNK	1.0 X10 1 P 6.27 X10-1 S	BE	METHOD NOT CITED	BENJ	66040	T L M
COMPOUND NO = 716 MOL WGT -	891.5	DODECYL /OXYETHYLENE/16 ALCOHOL REDUCED POLYDISPERSITY OF HEAD GROUPS					
1 ENTRIES FOR COMPOUND	25	2.205X10-2 D 2.473X10-4 M	EE	FOTOMTR SOLUBLZTN OROT	SCHO	66036	T L M
COMPOUND NO = 717 MOL WGT -	378.4	DODECYLQUINOLINIUM BROMIDE					
1 ENTRIES FOR COMPOUND	25	4.80 X10-3 M	BB	SURFACE TENSION LOG PLOT	FEW GILB	58031	T 3
COMPOUND NO = 718 MOL WGT -	395.7	TETRAETHYLAMMONIUM DODECYL SULFATE					
2 ENTRIES FOR COMPOUND	30	4.5 X10-3 M	CB	EQUIV CONDUCTNCE GRAPH	MEGU KOND	59026	T L
	30	4.1 X10-3 M	CG	FOTOMTR SPCTR CHNGE RHD6	MEGU KOND	59026	T L
COMPOUND NO = 719 MOL WGT -	507.9	TETRAETHYLAMMONIUM DODECYL SULFATE					
2 ENTRIES FOR COMPOUND	30	1.3 X10-3 M	CC	EQUIV CONDUCTNCE GRAPH	MEGU KOND	59026	T L
	30	1.0 X10-3 M	CG	FOTOMTR SPECTR CHNGE RHD6	MEGU KOND	59026	T L
COMPOUND NO = 720 MOL WGT -	733.2	1-6-DITRIMETHYLAMMONIUM-HEXANE/DODECYL SULFATE/2					
1 ENTRIES FOR COMPOUND	30	9.6 X10-4 M	CB	EQUIV CONDUCTNCE GRAPH	MEGU KOND	59026	T 3
COMPOUND NO = 721 MOL WGT -	1,542.1	NONYL BENZENE /OXYETHYLENE/30 ALCOHOL BRANCHED CHAIN REDUCED OE DISTRIBUTION					
1 ENTRIES FOR COMPOUND	25	4.22 X10-2 D 2.736X10-4 M	EC	ULTRAFILTRATION	SCHO	64004	T L M

Concentration units: A—mol %; B—vol % solvent; C—mol % surfactant mixture; D—wt/vol %; E—% saturation; H—wt % solvent; I—mol % surfactant; K—normality

counterions; M—molar; N—normal; P—wt %; Q—wt % surfactant; R—varied; S—mol/kg; T—wt % surfactant mixture; U—mol/(l or kg); W—molal; Y—atm. Details on page 222.

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MG S04
 308 568
 N-C10 GLYCEROL ETHER
 1 171 172 175 176 177 178 179
 N-C10 SULFOLANYL ETH
 171
 N-DECANE
 201 202 204
 N-HEPTANE
 1
 N-HEXANE
 38 91
 N-3SOA*
 171
 NA ACETATE
 38 482
 NA BR
 1 41 97 98 102 127 128 129
 130 131 168 278 290 291 293 321
 346 347 643
 NA BR03
 129 168 321
 NA CITRATE
 163 164 165 166 321
 NA CL
 1 2 3 4 5 18 21 22
 24 38 41 42 91 93 95 97
 111 116 132 133 134 135 136 137
 139 156 163 164 165 166 167 168
 169 179 182 205 206 258 273 274
 278 290 295 311 321 324 329 337
 345 418 419 432 433 434 459 462
 482 492 688 634
 NA CL04
 3
 NA CNS
 116 321 324
 NA F
 1 130 321
 NA HCO2 FORMATE
 38 128
 NA HCO3
 273
 NA I
 1 168 278 321
 NA I03
 127 168 321
 NA N03
 1 23 24 38 131 273 278
 NA OH
 132 139 168 263 273 298 300 321
 448
 NA P-TOLUENE-S03
 295
 NA P04
 139 273
 NA SUCCINATE
 38
 NA+ ION
 1
 NA14 P12057 POLY
 139
 NA2 B407
 273
 NA2 C03
 139 273 680
 NA2 SI03 META
 91 139 273 680
 NA2 S04
 1 18 91 116 132 163 164 165
 166 171 182 273 278 307 308 309
 321 324 573 680
 NA2 S203 THIOSULF
 376
 NA4 P207 PYRO
 1 91 139 149 273 278
 NA5 P3010 TRIPOLY
 1 139 141 142
 NA53 P500154 POLY
 139
 NH3
 97 99 206

NH4 BR
 99
 NH4 CL
 97 99 206
 NI S04
 575
 NITROBENZENE
 274
 NONANOL-1
 44 90 91 92
 OCTANOL-1
 1 44 90 91 92 273
 OLEIC ACID
 263
 PENTADECANOL V. BR*
 1
 PENTAMINE
 1
 PENTANOL-1
 1 245
 PH OF SOLUTION
 1 21 38 91 92 99 185 206
 263 273 298 299 320 322 323 416
 417 485 487 529 703
 PHENOL
 97
 PHENYL (CH3)3 N I
 1
 PINACYANOL CL (DYE)
 1 44 91 188 296
 PRESSURE
 1 38 41 95 97 279
 PROPANOL-1
 1 21 38 44 90 91 92 95
 PROPANOL-2
 1 38
 PROPIONIC ACID
 1
 RB BR
 290
 RHODAMINE GGPC
 1 111
 SI02/NA20=1.60
 91 273
 SI02/NA20=2.46
 273
 SI02/NA20=3.93
 273
 SR CL2
 321
 SUCCINIC ACID
 38
 SUCROSE
 1 166
 TARTARIC ACID
 38
 TERTIARY BUTANOL
 38 660
 TETRADECANOL-2
 171
 TMCHGLET*
 171
 TRIBUTYL PHOSPHATE
 1 263 451
 TRIETHYL CARBINOL
 38
 UNDECANOL-1
 38
 UREA
 1 3 5 21 97 111 112 113
 114 115 116 117 320 321 322 323
 376
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 273
 1,2 DECANE DIOL
 273
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 451
 3-METHYL BUTANOL-1
 44 90 91 92
 3,5(CH3)2 C6H3 GLET*
 1

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(CH3) 4 N BR 65012	C6H5 (CH3) 3 N OH 48009
(CH3) 4 N CL 62019 64020	C8 GLYCEROL ETHER 57014
(CH3) 4 N I 53012	DC ANTIFOAM A (PMS*) 57031
(C2H5) 4 N BR 65012	DECANOL-1 50008 55004 56018 57014 57031 60006 62009
(C3H7) 4 N BR /NORMAL 65012	DEUTERIUM OXIDE 66002
(C4H9) CH3 3 N I 53012	DIOXANE 46004 49006 65011 65013 65020
(C4H9) 4 N BR /NORMAL 65012	ETHANOL 40004 46001 48023 49006 50008 55004 57013
ACETIC ACID 49008	58007 65013 66012
ACETONE 48023 49017	ETHYLENE GLYCOL 46004 49006
ACETONITRILE 49023	FORMIC ACID 49008
AG N03 62006	GLYCEROL 36002 46004
AL CL3 51005	GUANIDINIUM CL 65011 66012
BA CL2 47010 49008 62019	GUANIDINIUM CO3 66012
BENZENE 48021 49006 50003 55008	H BR 64006 65012
BROMPHENOL BLUE 51008	H CL 36002 49008 54010 56014 57021 62005 62019
BUTANOL-1 49006 50008 55004 66012	64016 65011
BZL* C6H5 /CH3/2 N I 53012	H CLO4 50012 65019
CA ACETATE 49008	H N03 49008 50012 56014
CA BR2 64043	HEPTANOL-1 50008 55004 56018
CA CL2 51005 61008 62002 62011 62019 63008	HEXANOL-1 50008 55004 56018 59018
CA FORMATE 49008	HEXYL AMMONIUM CL 48020
CA N03 62019	H2 S04 65019 65025
CALGON (NA HXMT*) 48024	IONIC STRENGTH 65030
CAPRYLAMIDE 57014	ISOC5 GLYCEROL ETHER 57014
CARBOXYMETHYLCELLULO 48024	K BR 48005 49001 55009 59010 59024 64043 66028
CL- ION 54013	K CL 47010 48005 49005 50008 50012 51005 52017
CO S04 63034	53002 54010 56001 56002 62019 62037 65028
CS CL 53012	66023 66028
CS2 S04 53012	K CNS 60012 61006
CU S04 63034	K H S04 65025
CYCLOHEXANE 48021	K I 48005 59024 60015 66006 66023 66028
C12 CLORHYDRIN GLET* 57014	K IO3 59024
C12 DIETHANOLAMIDE 58008	K N03 48005 48025 49005 50012 61026 62019 62037
C12 ETHANOL AMIDE 57014	64011 66023
C12 GLYCEROL ETHER 57014	K OH 48004 48009 48011 48012 49005 50012 51004
C12 SULFOLANYLAMIDE 57014	53006 54003 54005 54010 55004 56001 59008
	59012 60002 61025 65012
	K+ION 54013 55007
	K2 S04 47010 48005 49005 53012 59024 62037

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SUCROSE									
63020	64034								
TARTARIC ACID									
49008									
TERTIARY BUTANOL									
49014									
TETRADECANOL-2									
57014									
TMCHCGLET*									
57014									
TRIBUTYL PHOSPHATE									
57031									
TRIETHYL CARBINOL									
50008									
UNDECANOL-1									
50008									
UREA									
47010	61016	62020	63032	64020	65011	66012			
47010	48011	53010							
1,10 DECANE DIOL									
56018									
1,2 DECANE DIOL									
56018									
2-ETHYL HEXANOL									
57031									
3-METHYL BUTANOL-1									
55004									
3,5 (CH ₃) ₂ C ₆ H ₃ GLET*									
57014									

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54006	38	263	273	298	300	448	58017	578	579											
	564	565	566	567			58020	1												
54008	651	652	653				58021	409	410											
54010	1	416	417	428	430	455	58023	1												
	456						58028	586												
54013	1	38	91	185			58031	717												
55003	1						59001	1	492	493										
55004	44	90	91	92			59002	111	112											
55005	1						59004	1	5	52	53	54	55							
55006	97	307						56	57	58	59	60	61							
55007	668	669	670	671	672	673		62	63	64	65									
55008	40						59005	166												
55009	93	94	95	96	97	98	59006	163	164	165	166	431	432							
	99	100	101	102				433	434	435	436	437	438							
55015	1							439	440	441	442	443	444							
55018	1						59007	43												
55021	1	3	4	179	181	182	59008	44												
	183	340	341	342	345		59009	139	149	273										
55028	492	501	502	503	504	505	59010	99	427											
	506	507	508	509	510	511	59012	44												
	512	513	514				59013	18	423	424										
56001	1	38	49	50	91	92	59015	1												
	259	416	417				59016	1	38	273										
56002	1						59017	409	410											
56003	420	421	422	425	426		59018	1	3											
56005	171	301	302				59020	166	206	538	539	540								
56006	1	2	4	5	15	16	59023	430												
	17	64	66	68	69	70	59024	278	290	376										
	71	72	73	74	75	76	59026	112	386	718	719	720								
	77	78	79	80	81	82	60001	37	38											
	83	84	85	86	87	88	60002	44												
	89						60004	1												
56008	36	189	190	191	192	193	60005	36												
	194	195	196	197	198	199	60006	201	202											
56010	416	417	428	429	430		60008	6	7	8	9	10	11							
56011	1	2	3	4	5	295		12	13	14										
							60010	1	138	139	140	141	142							
56014	156	168	169	335	336	337		143	144	145	146	147	148							
	338							149	150	151	152	153	154							
56016	51							155	156	157	158	159	160							
56018	273							161	162											
56019	102	274	376	427	479	480		161	162											
	481						60011	1	97											
56020	1	111	634				60012	377	488	489	490									
57004	37	38	39				60015	376												
57005	1	40					60017	445	446	447										
57006	38	41	42				60018	1	4	5	54	55	57							
57009	257	258	259	260	261	262		58	59	61	64	113	541							
57010	451							542	543	544	545	546	547							
57011	1	2	3					548	549											
57012	45	46	47	48	49	50	60020	1												
	51						60021	1	260											
57013	1						60024	1	38	273										
57014	1	67	171	172	173	174	60025	1	91	295	418	419								
	175	176	177	178	179		60026	459												
57016	186						60027	459												
57017	416	417	428	429	430		60028	462												
57020	578	579	580	581	582	583	60029	1	24	568	569	570	571							
	584	585						572	573	574										
57021	38						60032	91	273											
57022	1	2	3	4	5	64	60033	260	674	675	676	677	678							
57024	495							679	680											
57025	1						60034	91	273											
57031	1	263	451				61001	280	281											
58001	257	258	259	260	262		61002	41	42	203										
58003	5	52	53	54	55	56	61003	163	164	165	166	167	168							
	57	58	59					169												
58004	263						61004	105	110	282										
58007	263	264					61005	3												
58008	1	139	263				61007	1	3	4	15	16	17							
58009	274						61008	18	19	20										
58011	44	90	91	92	188	296	61014	1	99	139	144	145	149							
	297	350	351	374	375	416		159	167	263	310									
	417	428	429	430	452	453														
	454	455					61015	1	98	139	141	142	149							
58012	1	97						310												

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61016	97						64004	170	721						
61017	1	3					64006	21	22	293					
61025	90						64007	280							
61026	40	1					64009	108	110	282	331	377	378		
61027	99	451						379	380						
61029	693	694	695	696	697	698	64010	139	206						
61030	273						64011	456							
61031	1	2	3	4	5	64	64012	179							
	273	298	299	300	448	501	64014	207	208	209	210	211	212		
	502	503	505	506	507	508		213	214	215	216				
	509						64016	21	22	251	252	254			
62001	166	168					64017	1	97						
62002	163	164	165	166	167	168	64020	1	3	5	111	112	113		
	169	432	433	434	435	436		114	115	116	117				
62004	2	3	93	95			64023	105	108	282	289				
62005	21	22	251	252	253		64024	468	469	470	471	472	473		
62006	1	23	24					474	475						
62008	7	25	26	27	28	29	64025	1							
	30	31	32	33	34	35	64027	294							
	36						64032	1							
62009	1	204					64034	1							
62010	1	205					64035	411	412	413	414	415			
62011	205	206					64037	645	646	647	648	650	651		
62015	103	294	380	381			64043	95	97	306	307	308	309		
62019	115	116	312	313	314	315	64047	1	2	3	295	311			
	316	317	318	319	320	321	64049	294	393	394	395	396	397		
	322	323	324	325	326	327		398							
	328	329					64050	290							
62020	115	116	320	321	322	323	64051	1	5	263	273	298	299		
	324	326	327	328	329			485	487						
62023	495	496	497	498	499		65003	119	120	121	122	123			
62027	282	330	331	332	333	334	65005	346	347	348					
62035	95	97					65007	179							
62036	1						65011	320	322	323					
62037	91						65012	99							
62038	273						65013	166							
62040	3						65018	1	3						
63001	1	3	4				65019	460	491	528					
63008	132	133	134	135	136	137	65020	1	4	5					
63009	118	132					65022	1	2	4					
63010	132	133	134				65024	273	298	299	476				
63012	133	134					65025	529	530	531	532	533	534		
63013	1	4	5	9	10	64	65026	41	278	399					
	179	183	184	200	229	230	65028	1	91	99	596				
	231	232	233	234	235	236	65030	1	206						
	237	238	239	240	241	242	65031	38							
	243	244	245	246	247	248	65036	38	41	279					
	249	250					65037	427							
63014	346						66001	1	115	116	325	327			
63015	118	119	120	121	122	123	66002	1	3						
	124	125	126				66003	597	598	599	600	601			
63016	41	97	127	128	129	130	66006	290	376						
	131						66007	1							
63017	207	208	209	210	211	212	66010	1							
	213	214	215	216	217	218	66011	51	274	275	358	477	478		
	219	220	221	222	223	224	66012	21							
	225	226	227	228			66013	587	588	589	590	591	592		
63020	166							593	594	595					
63021	108	110	377	378	380	381	66014	287	288	346	347	385	640		
63026	1	97	113	114	115	116		641	642	643	644				
	117						66015	684	685	686	687	688	689		
63030	112	280	382	383	384	385		690	691	692					
	386	387	388	389	390	391	66018	1	97	98	99	459			
63032	376						66019	461							
63034	1	568	572	573	575	576	66020	105							
	577						66021	139	463	464	465	466	467		
63037	457						66022	310	336	515	516	517	518		
64001	98	102	290	291	292			519	520	521	522	523	524		
64002	26	189	190	191	194	602	66023	550	551	552	553				
	603	604	605	606	607	608		97	99	115	116	117	325		
	609	610	611	612	613	614	66025	327	535						
	615	616	617	618	619	620									
	621	622	623	624	625	626	66027	21							
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66030	99			66039	710	711	712			
66036	1	170	182	716	21	251	252	254	587	588
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FOTOMTR SOLUBLZTN SDN 4 57020 58028 63008 63010 63037 64024	SURFACE TENSION LOG PLOT 38006 48022 52011 54010 54013 56014 56016 56018 57009 57012 57022 57024 58003 58031 59001 59013 59020 60004 60012 60027 60029 61004 61008 61026 62015 62019 62020 62023 62027 63008 63009 63012 63013 63014 63015 63017 63026 63034 63037 64001 64003 64009 64010 64014 64020 64023 64024 64037 64047 64049 65003 65005 65007 65011 65019 65024 65025 65026 66001 66007 66013 66015 66019 66021 66022 66025 66039
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ALEXANDER AE	J PHYS CHEM	66	1839	1962	62035
ANACKER EW	J PHYS COLLOID CHEM	55	644	1951	51001
	J COLLOID SCI	8	402	1953	53002
	J PHYS CHEM	62	41	1958	58009
	J PHYS CHEM	63	1022	1959	59011
	J CHEM EDUC	37	36	1960	60005
	J PHYS CHEM	67	1713	1963	63016
	J PHYS CHEM	68	81	1964	64017
	J PHYS CHEM	68	3490	1964	64018
	J PHYS CHEM	69	2357	1965	65030
	ANGELESCU E.	REV CHIM AC.REP POP.ROUM.	6	309	1961
ARAI H	KOGYO KAGAKU ZASSHI	68	1090	1965	65017
ARISHI S	J SCI HIROSHIMA UNIV, SER A-II	22	57	1958	58023
ARKIN L	J AM CHEM SOC	70	3965	1948	48017
	J COLLOID SCI	4	537	1949	49012
	J AM CHEM SOC	73	4574	1951	51007
ARRINGTON CH	J PHYS CHEM	57	247	1953	53003
ASCOLI F	NATURE	184	1482	1959	59014
	J MOL BIOL	3	202	1961	61023
	J PHYS CHEM	65	1991	1961	61024
	PONTIF ACAD SCIENTIAR. SCRIPTA VAR.	22	/12/1	1962	62021
	BIOPOLYMERS	1	353	1963	63025
ATLAS SM	J PHYS CHEM	66	1326	1962	62020
AULT WC	J AM OIL CHEMISTS SOC	37	679	1960	60008
	J AM OIL CHEMISTS SOC	39	55	1962	62008
	J AM OIL CHEMISTS SOC	41	205	1964	64002
BAILEY JH	J COLLOID SCI	8	385	1953	53007
BAIR EJ	J AM CHEM SOC	73	799	1951	51013
	J AM CHEM SOC	73	1129	1951	51014
BALMBRA RR	TRANS FARADAY SOC	58	1661	1962	62013
	TRANS FARADAY SOC	60	979	1964	64023
	REV CHIM AC.REP POP.ROUM.	6	309	1961	61029
BARBULESCU EM	J AM OIL CHEMISTS SOC	43	157	1966	66003
BASCOM WD	J COLLOID SCI	13	569	1958	58024
	WORLD PETROL CONGR. PROC	V 6	18	1959	59021
BAYLEY CH	CAN J CHEM ENGR	F28	213	1950	50010
BECHER P	J COLLOID SCI	14	519	1959	59005
	J PHYS CHEM	63	1675	1959	59006
	J PHYS CHEM	64	1221	1960	60003
	J COLLOID SCI	16	49	1961	61003
	J PHYS CHEM	66	374	1962	62001
	J COLLOID SCI	17	386	1962	62002
	J COLLOID SCI	18	196	1963	63020
	J COLLOID SCI	18	665	1963	63022
	PROC INTERN CONGR SURFACE ACTIVITY	4TH		1964	64005
	J PHYS CHEM	68	3511	1964	64008
BECKETT AH	J COLLOID SCI	20	728	1965	65013
	J PHARM PHARMACOL	15	422	1963	63015
BEISWANGE. JPC	J AM OIL CHEMISTS SOC	43	435	1966	66022
BENJAMIN L	J PHYS CHEM	68	3575	1964	64016
	J COLLOID INTERFACE SCI	22	386	1966	66012
	J PHYS CHEM	70	3790	1966	66040
	J PHYS CHEM	61	593	1957	57002
BENSON GC	CAN J CHEM	35	986	1957	57011
	J COLLOID SCI	13	584	1958	58005
	TRANS FARADAY SOC	54	1638	1958	58006
	CAN J CHEM	37	2083	1959	59007
	CAN J CHEM	37	2086	1959	59008
	TRANS FARADAY SOC	55	1025	1959	59012
	J PHYS CHEM	64	599	1960	60002
	TRANS FARADAY SOC	62	3244	1966	66038
BENTON D	J CHEM SOC		2264	1964	64028
BERRY RWH	J CHEM SOC		2264	1964	64028

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	MASLOB ZHIR PROM	28	20	1962	62039
	MASLOB ZHIR PROM	29	19	1963	63038
BETZ MD	J AM CHEM SOC	57	1905	1935	35007
BISTLINE RG	J PHYS CHEM	62	1083	1958	58003
	J AM OIL CHEMISTS SOC	36	241	1959	59004
	J AM OIL CHEMISTS SOC	37	679	1960	60008
	J AM OIL CHEMISTS SOC	39	55	1962	62008
	J AM OIL CHEMISTS SOC	40	538	1963	63013
BISWAS AK	J PHYS CHEM	64	1	1960	60028
BJAASTAD SG	J PHARM SCI	54	1529	1965	65027
BOLAM TR	NATURE	167	195	1951	51012
BOLDUAN OEA	J PHYS CHEM	47	94	1943	43008
BOTRE C	NATURE	184	1482	1959	59014
	TRANS FARADAY SOC	55	1975	1959	59015
	J PHYS CHEM	63	650	1959	59016
	PROC INTERN CONGR SURFACE ACTIVITY	3RD	302	1960	60024
	J MOL BIOL	3	202	1961	61023
	J PHYS CHEM	65	1991	1961	61024
	ANN CHIM (ROME)	52	1199	1962	62017
	PONTIF ACAD SCIENTIAR. SCRIPTA VAR.	22	/12/1	1962	62021
	J PHARM SCI	52	1011	1963	63024
	BIOPOLYMERS	1	353	1963	63025
	BIOCHEM BIOPHYS ACTA	88	415	1964	64031
	J PHYS CHEM	68	3624	1964	64032
	RIC SCI	6	71	1964	64033
	J PHARM SCI	54	919	1965	65010
BOYD GE	J AM CHEM SOC	64	2067	1942	42008
	J AM CHEM SOC	64	498	1942	42009
BRADY AP	J AM CHEM SOC	65	2072	1943	43006
	J COLLOID SCI	3	511	1948	48004
	J COLLOID SCI	3	425	1948	48009
	J PHYS COLLOID CHEM	3	57	1948	48022
	J PHYS COLLOID CHEM	55	311	1951	51004
BRAMFITT TH	J PHYS CHEM	61	1261	1957	57031
BRASS PD	J AM CHEM SOC	76	4703	1954	54013
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BROOME FK	J AM CHEM SOC	71	2145	1949	49008
	J AM CHEM SOC	71	671	1949	49013
BROWN AS	J PHYS CHEM	56	701	1952	52013
BROWN EL	J AM OIL CHEMISTS SOC	38	361	1961	61019
BROWN GL	J AM CHEM SOC	69	1835	1947	47001
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BRUFANI M	J PHARM SCI	54	919	1965	65010
BRUNING W	J AM CHEM SOC	83	4865	1961	61016
BRUSHMILLER J	J PHYS CHEM	70	2909	1966	66039
BUJAKE JE	TRANS FARADAY SOC	61	190	1965	65007
BUNBURY HM	TRANS FARADAY SOC	31	208	1935	35003
BURY CR	PHIL MAG	4	841	1927	27002
	J CHEM SOC	679	1929	1929	29001
	J CHEM SOC	2263	1930	1930	30001
	J CHEM SOC	626	1935	1935	35008
	TRANS FARADAY SOC	48	209	1952	52011
CADLE RD	J AM CHEM SOC	73	5411	1951	51003
CADY GH	J PHYS CHEM	63	757	1959	59023
CAMPBELL AN	CAN J CHEM	40	839	1962	62034
	CAN J CHEM	43	1004	1964	64026
	CAN J CHEM	43	1729	1965	65024
CARDWELL PH	J COLLOID INTERFACE SCI	22	430	1966	66011
	J COLLOID INTERFACE SCI	19	201	1964	64009
CARR CW	J PHYS COLLOID CHEM	51	636	1947	47013
	J POLYMER SCI	5	201	1950	50002
	J POLYMER SCI	5	191	1950	50005
	J PHYS CHEM	60	1245	1956	56001
CARRINGTON RAG	J CHEM SOC	1701	1957	1957	57007
CARTAN F	J CHEM EDUC	37	36	1960	60005
CELLA JA	J AM CHEM SOC	74	2061	1952	52001
CHAITINS RA	J COLLOID SCI	19	201	1964	64009
CHAND P	J AM OIL CHEMISTS SOC	43	446	1966	66023
CLIFTON NK	J COLLOID SCI	14	519	1959	59005
CLUNIE JS	TRANS FARADAY SOC	58	1661	1962	62013
	TRANS FARADAY SOC	60	979	1964	64023
COHEN I	J COLLOID SCI	9	243	1954	54011
	J PHYS CHEM	65	1781	1961	61027
	J PHYS CHEM	65	1774	1961	61028
	J COLLOID SCI	20	732	1965	65012
COLE RH	J AM CHEM SOC	71	2835	1949	49015
COLICHMAN EL	J AM CHEM SOC	72	4036	1950	50012
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CONSOLE L	ANALES ASOC QUIM ARGENT	53	39	1965	65034
COON RI	J PHYS CHEM	57	923	1953	53014
CORKILL JM	TRANS FARADAY SOC	57	1627	1961	61004
	TRANS FARADAY SOC	58	206	1962	62006
	TRANS FARADAY SOC	58	1661	1962	62013
	PROC ROY SOC	273	84	1963	63014
	J PHYS CHEM	67	935	1963	63018
	J COLLOID SCI	18	401	1963	63019
	TRANS FARADAY SOC	60	202	1964	64003
	TRANS FARADAY SOC	60	986	1964	64012
	TRANS FARADAY SOC	60	979	1964	64023
	TRANS FARADAY SOC	60	996	1964	64027
	TRANS FARADAY SOC	61	589	1965	65004
	TRANS FARADAY SOC	61	583	1965	65005
	TRANS FARADAY SOC	62	994	1966	66014
	TRANS FARADAY SOC	62	987	1966	66015
	TRANS FARADAY SOC	62	979	1966	66016
CORRIN ML	J CHEM PHYS	14	216	1946	46002
	J CHEM PHYS	14	640	1946	46004
	J CHEM PHYS	14	641	1946	46005
	J CHEM PHYS	14	480	1946	46010
	J AM CHEM SOC	68	220	1946	46013
	J COLLOID SCI	1	105	1946	46014
	J COLLOID SCI	1	469	1946	46015
	J AM CHEM SOC	69	679	1947	47006
	J AM CHEM SOC	69	683	1947	47010
	J COLLOID SCI	3	333	1948	48013
	J PHYS COLLOID CHEM	53	1350	1949	49006
	J PHYS COLLOID CHEM	54	271	1950	50008
	J COLLOID SCI	6	576	1951	51010
COURCHENE W	J PHYS CHEM	70	2909	1966	66039
CRESCENZI V	NATURE	184	1482	1959	59014
	PROC INTERN CONGR SURFACE ACTIVITY	3RD	302	1960	60024
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	J PHYS CHEM	63	650	1959	59016
CROOK EH	J PHYS CHEM	67	1987	1963	63017
	J AM OIL CHEMISTS SOC	41	231	1964	64013
	J PHYS CHEM	68	3592	1964	64014
	J COLLOID SCI	20	191	1965	65001
CUSHMAN A	J COLLOID SCI	3	425	1948	48009
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	ROCZN CHEM	39	1469	1965	65032
	ROCZN CHEM	39	1275	1965	65037
	ROCZN CHEM	40	1265	1966	66029
	ROCZN CHEM	40	1935	1966	66030
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DAVIES DG	J CHEM SOC		2263	1930	30001
DE MARTIIS F	J PHYS CHEM	68	3624	1964	64032
DEBYE P	J COLLOID SCI	3	407	1948	48006
	ANN N Y ACAD SCI	51	575	1949	49001
	J PHYS COLLOID CHEM	53	1	1949	49002
	AN. R. SOC ESPAN FIS QUIM (MADRID)	46	335	1950	50001
	J PHYS COLLOID CHEM	55	644	1951	51001
	J COLLOID SCI	17	220	1962	62003
DEL VECCHIO AJ	J PHYS CHEM	68	3511	1964	64008
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DEMCHENKO PA	DOKLADY AKAD NAUK SSSR	131	120	1960	60032
	MASLOB ZHIR PROM	26	26	1960	60034
	KOLLOID ZH	23	528	1961	61030
	DOPOV. AKAD NAUK UKR RSR		928	1961	61031
	UKR KHIM ZH	27	322	1961	61032
	MASLOB ZHIR PROM	27	19	1961	61033
	UKR KHIM ZH	28	46	1962	62037
	UKR KHIM ZH	28	611	1962	62038
DERVICHIAN DG	PROC INTERN CONGR SURFACE ACTIVITY	3RD	182	1960	60019
DITMARSCH R	NATURE	208	889	1965	65029
DIXON JK	J COLLOID SCI	12	452	1957	57009
	J COLLOID SCI	13	411	1958	58001
DOAN AS	J PHYS CHEM	61	371	1957	57003
DOERR IL	J PHYS CHEM	68	3494	1964	64007
DONBROW M	J PHARM PHARMACOL	15	825	1963	63021
	J PHARM PHARMACOL	15	317	1963	63030
	J PHARM PHARMACOL	18	925	1966	66019
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DULIN CI	J PHYS CHEM	62	1390	1958	58013	
DUMANSKII AV	DOKLADY AKAD NAUK SSSR	131	120	1960	60032	
DUNNING HN	J PHYS CHEM	59	362	1955	55020	
	J PHYS CHEM	60	657	1956	56014	
DYE WB	J AM CHEM SOC	61	3210	1939	39011	
EGGENBERGER DN	J AM CHEM SOC	69	2095	1947	47003	
	J AM CHEM SOC	70	977	1948	48014	
	J AM CHEM SOC	70	980	1948	48019	
	J AM CHEM SOC	70	2918	1948	48020	
	J AM CHEM SOC	70	983	1948	48021	
	J PHYS COLLOID CHEM	52	1494	1948	48023	
	J AM CHEM SOC	70	436	1948	48027	
	J AM CHEM SOC	71	2145	1949	49008	
	J AM CHEM SOC	71	672	1949	49009	
	J AM CHEM SOC	73	3353	1951	51006	
	J AM CHEM SOC	74	2061	1952	52001	
	EIKREM H	ACTA CHEM SCAND	17	111	1963	63033
	EIRICH FR	J PHYS CHEM	66	1326	1962	62020
	EKWALL P	ACTA ACAD ABOENSIS. MATH PHYS	4	1	1927	27001
KOLLOID-Z		45	291	1928	28001	
KOLLOID-Z		161	195	1932	32001	
ACTA ACAD ABOENSIS. MATH PHYS		7	3	1933	33001	
ACTA ACAD ABOENSIS. MATH PHYS		7	3	1933	33002	
KOLLOID-Z		77	320	1936	36003	
KOLLOID-Z		80	77	1937	37001	
KOLLOID-Z		84	284	1938	38002	
FINSKA KEMISTSAMFUNDETS MEDD		1	8	1939	39004	
KOLLOID-Z		92	141	1940	40002	
TEK FOREN FINLAND FÖRH.		10	1	1940	40003	
MEDD. ABO AKAD. FYS. KEM. IN.		SP NO	3	1941	41002	
KOLLOID-Z		97	71	1941	41003	
KOLLOID-Z		94	42	1941	41004	
KOLLOID-Z		101	135	1942	42004	
FINSKA KEMISTSAMFUNDETS MEDD		25	257	1943	43005	
ACTA CHEM SCAND		6	441	1952	52006	
ACTA CHEM SCAND		6	440	1952	52007	
ACTA CHEM SCAND		17	111	1963	63033	
ACTA CHEM SCAND		19	573	1965	65023	
J COLLOID SCI		9	382	1954	54006	
ELDER ME		J PHARM PHARMACOL	012	293	1960	60027
		J PHARM PHARMACOL	14	100	1962	62027
ELWORTHY PH		KOLLOID-Z	195	23	1964	64049
		J PHARM PHARMACOL	17	65	1965	65016
		J COLLOID SCI	21	331	1966	66007
		KOLLOID-Z Z POLYMERE	208	157	1966	66008
	J PHYS CHEM	69	3718	1965	65006	
EMERSON MF	J PHYS CHEM	67	2075	1963	63001	
EPSTEIN MB	J COLLOID SCI	10	71	1955	55025	
ERIKSON JA	J CHEM SOC		579	1956	56006	
EVANS HC	J CHEM SOC		1701	1957	57007	
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EVERS EC	J AM CHEM SOC	69	1835	1947	47001	
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EXNER ML	J PHYS CHEM	60	890	1956	56016	
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EZAKI H	J PHYS CHEM	60	890	1956	56016	
FAVA A	J CHEM SOC		1712	1958	58031	
FEW A	J CHEM SOC		1712	1958	58031	
FINEMAN MN	J PHYS COLLOID CHEM	52	881	1948	48011	
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	J COLLOID SCI	8	424	1953	53008	
	J COLLOID SCI	12	557	1957	57013	
	J COLLOID SCI	16	484	1961	61007	
	KOLLOID-Z	195	23	1964	64049	
FLORENCE AT	KOLLOID-Z Z POLYMERE	208	157	1966	66008	
	J PHARM PHARMACOL	18	384	1966	66020	
FORD WPJ	J COLLOID INTERFACE SCI	21	522	1966	66028	
FORDYCE DB	J PHYS CHEM	67	1987	1963	63017	
	J AM OIL CHEMISTS SOC	41	231	1964	64013	
	J PHYS CHEM	68	3592	1964	64014	
	J COLLOID SCI	20	191	1965	65001	
FOSTER JF	J PHYS CHEM	57	628	1953	53015	
FOWKES FM	J PHYS CHEM	61	1062	1957	57014	
	J PHYS CHEM	62	159	1958	58029	
FOX CJ	J AM CHEM SOC	73	2323	1951	51011	
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FUJITA H	J SCI HIROSHIMA UNIV. SER A-II	28	41	1964	64036
FULLER GW	J COLLOID SCI	10	403	1955	55022
FURMIDGE CGL	J CHEM SOC		03229	1956	56019
GERSHMAN JW	J PHYS CHEM	61	581	1957	57012
GETTY R	J PHYS COLLOID CHEM	52	774	1948	48024
GHOSE HM	J PHYS CHEM	67	1713	1963	63016
GIESE E	KOLLOID-Z	73	276	1935	35002
GIESKES JMTM	CAN J CHEM	43	1004	1964	64026
GILBERT AH	J COLLOID SCI	20	464	1965	65011
GILBY A	J CHEM SOC		1712	1958	58031
GINN ME	J PHYS CHEM	62	1554	1958	58008
	J AM OIL CHEMISTS SOC	36	332	1959	59009
	J AM OIL CHEMISTS SOC	37	183	1960	60010
	J AM OIL CHEMISTS SOC	38	605	1961	61014
	J AM OIL CHEMISTS SOC	38	138	1961	61015
	J AM OIL CHEMISTS SOC	38	361	1961	61019
	J AM OIL CHEMISTS SOC	38	605	1961	61014
GODDARD ED	TRANS FARADAY SOC	49	980	1953	53012
	RES CORRESPONDENCE	8	1	1955	55011
	RES CORRESPONDENCE	7	1	1955	55018
	J PHYS CHEM	61	593	1957	57002
	CAN J CHEM	35	986	1957	57011
	TRANS FARADAY SOC	61	190	1965	65007
	J AM CHEM SOC	67	1191	1945	45001
GONICK E	J COLLOID SCI	1	127	1946	46008
	J COLLOID SCI	1	393	1946	46009
	REC TRAV CHIM	65	601	1946	46016
	J AM CHEM SOC	68	177	1946	46019
	J AM CHEM SOC	69	334	1947	47007
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GOODMAN JF	TRANS FARADAY SOC	58	1661	1962	62013
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	TRANS FARADAY SOC	60	986	1964	64012
	TRANS FARADAY SOC	60	979	1964	64023
	TRANS FARADAY SOC	60	996	1964	64027
	TRANS FARADAY SOC	61	589	1965	65004
	TRANS FARADAY SOC	61	583	1965	65005
	TRANS FARADAY SOC	62	994	1966	66014
	TRANS FARADAY SOC	62	987	1966	66015
	TRANS FARADAY SOC	62	979	1966	66016
	KOLLOID-Z	117	42	1950	50009
	GOTTE E	FETTE, SEIFEN, ANSTRICHMI	56	583	1954
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J COLLOID SCI		18	401	1963	63019
GRABENSTETT.RJ	J COLLOID SCI	8	105	1953	53004
GRAHAM H	J AM CHEM SOC	68	731	1946	46022
GREEN AA	J PHYS CHEM	61	818	1957	57004
GREENFIELD A	J AM CHEM SOC	70	1992	1948	48012
GREGORY NW	J AM CHEM SOC	68	1137	1946	46018
GRIEGER PF	J AM CHEM SOC	69	1835	1947	47001
	J AM CHEM SOC	70	3803	1948	48010
	J AM CHEM SOC	71	95	1949	49014
	J AM CHEM SOC	71	309	1949	49017
	J AM CHEM SOC	71	1455	1949	49018
	FETTE, SEIFEN, ANSTRICHMI	57	236	1955	55026
	FETTE, SEIFEN, ANSTRICHMI	57	168	1955	55027
	FETTE, SEIFEN, ANSTRICHMI	57	24	1955	55028
	J CHEM SOC		679	1929	29001
	J PHYS CHEM	57	923	1953	53014
HAFNER FD	J PHYS CHEM	46	662	1942	42003
HALL NA	J PHARM SCI	54	1529	1965	65027
HAMANN SD	J PHYS CHEM	66	1359	1962	62036
HARKINS WD	J AM CHEM SOC	59	2197	1937	37005
	J AM CHEM SOC	62	1496	1940	40005
	J CHEM PHYS	14	216	1946	46002
	J CHEM PHYS	14	640	1946	46004
	J CHEM PHYS	14	641	1946	46005
	J CHEM PHYS	14	480	1946	46010
	J CHEM PHYS	14	215	1946	46011
	J AM CHEM SOC	68	220	1946	46013
	J COLLOID SCI	1	105	1946	46014
	J COLLOID SCI	1	469	1946	46015
	J CHEM PHYS	14	214	1946	46017
	J AM CHEM SOC	69	679	1947	47006
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	J PHYS COLLOID CHEM	53	1350	1949	49006
	J COLLOID SCI	4	367	1949	49007
	J AM CHEM SOC	71	808	1949	49011
	J PHYS COLLOID CHEM	54	271	1950	50008
	SCI MONTHLY	70	220	1950	50011
	J COLLOID SCI	6	576	1951	51010
HARRIMAN LA	J AM CHEM SOC	74	2061	1952	52001
HARRIS JC	SOAP CHEM SPECIALTIES	1958		1958	58002
	J AM OIL CHEMISTS SOC	35	670	1958	58004
	J PHYS CHEM	62	1554	1958	58008
	J AM OIL CHEMISTS SOC	35	428	1958	58010
	J AM OIL CHEMISTS SOC	36	332	1959	59009
	J AM OIL CHEMISTS SOC	37	183	1960	60010
	J AM OIL CHEMISTS SOC	38	169	1961	61006
	J AM OIL CHEMISTS SOC	38	605	1961	61014
	J AM OIL CHEMISTS SOC	38	138	1961	61015
	J AM OIL CHEMISTS SOC	38	361	1961	61019
HARROLD SP	J PHYS CHEM	63	317	1959	59001
	J COLLOID SCI	15	280	1960	60004
	TRANS FARADAY SOC	60	202	1964	64003
	TRANS FARADAY SOC	62	994	1966	66014
HARTLEY GS	Z PHYSIK CHEM (LEIPZIG)	170	321	1934	34001
	TRANS FARADAY SOC	31	183	1935	35001
	TRANS FARADAY SOC	32	795	1936	36001
	J AM CHEM SOC	58	2347	1936	36002
	J CHEM SOC		1968	1938	38001
	NATURE	142	161	1938	38003
	TRANS FARADAY SOC	34	1288	1938	38005
	TRANS FARADAY SOC	35	1109	1939	39001
	KOLLOID-Z	88	22	1939	39005
	J CHEM SOC		1828	1939	39008
	TRANS FARADAY SOC	37	130	1941	41001
	ANN REP PROGR CHEM (CH. S. LONDON)	45	33	1948	48002
	NATURE	163	767	1949	49010
	CHEM IND (LONDON)	24	1012	1964	64030
HARVA O	FINSKA KEMISTSAMFUNDETS MEDD	25	257	1943	43005
	TRANS FARADAY SOC	49	980	1953	53012
	REC TRAV CHIM	75	112	1956	56018
HARWOOD HJ	J AM CHEM SOC	69	2095	1947	47003
	J AM CHEM SOC	71	672	1949	49009
	J AM CHEM SOC	71	671	1949	49013
	J AM CHEM SOC	73	3353	1951	51006
	J AM CHEM SOC	74	2061	1952	52001
HASAN A	ACTA CHEM SCAND	6	440	1952	52007
HATTORI K	BULL CHEM SOC JAPAN	36	1250	1963	63006
HAYANO S	KOLLOID-Z	181	139	1962	62023
HAYDON DA	TRANS FARADAY SOC	54	698	1958	58012
	PHIL TRANS ROY SOC LONDON, SER A	252	225	1960	60011
	TRANS FARADAY SOC	58	1233	1962	62004
HEALY TW	J PHYS CHEM	68	3562	1964	64035
	TRANS SME AIME		321	1964	64038
HENNE AL	J AM CHEM SOC	73	2323	1951	51011
HERMANS JJ	KONINKI NED AKAD WETEN. PROC SER B	58	91	1955	55001
	J PHYS CHEM	59	576	1955	55002
	KONINKI NED AKAD WETEN. PROC SER B	58	97	1955	55009
	KONINKI NED AKAD WETEN. PROC SER B	59	190	1956	56002
	KONINKI NED AKAD WETEN. PROC SER B	59	162	1956	56007
	KONINKI NED AKAD WETEN. PROC SER B	59	298	1956	56011
HERRMANN KW	J PHYS CHEM	66	295	1962	62005
	J PHYS CHEM	67	935	1963	63018
	J PHYS CHEM	68	1540	1964	64006
	J COLLOID INTERFACE SCI	22	352	1966	66013
HERRMANNWK	J PHYS CHEM	70	2909	1966	66039
HERZFELD SH	J PHYS COLLOID CHEM	54	271	1950	50008
	J PHYS CHEM	56	953	1952	52015
	J PHYS CHEM	56	959	1952	52017
HESS K	KOLLOID-Z	88	40	1939	39009
HICKSON J	PROC INTERN CONGR SURFACE ACTIVITY	2ND		1957	57024
HIEBERT EN	J COLLOID SCI	1	385	1946	46020
HIGHAM EH	RES CORRESPONDENCE	7	1	1955	55018
HIGUCHI T	J AM PHARM ASSOC	43	465	1954	54015
HISKEY CF	J COLLOID SCI	9	243	1954	54011
HOERR CW	J AM CHEM SOC	64	2824	1942	42001
	J AM CHEM SOC	64	772	1942	42002
	J AM CHEM SOC	64	97	1942	42005
	J AM CHEM SOC	65	976	1943	43002
	J AM CHEM SOC	65	328	1943	43009

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	J AM CHEM SOC	68	2460	1946	46001
	J AM CHEM SOC	69	883	1947	47002
	J COLLOID SCI	15	427	1960	60001
HOEVE CAJ	J PHYS CHEM	61	593	1957	57002
HOFFMAN EJ	J AM CHEM SOC	64	97	1942	42005
	J AM CHEM SOC	64	2067	1942	42008
	J AM CHEM SOC	64	498	1942	42009
HOLLAHAN JR	J PHYS CHEM	63	757	1959	59023
HOLMBERG P	ACTA CHEM SCAND	19	573	1965	65023
HOLTZER A	J AM CHEM SOC	83	4865	1961	61016
	J PHYS CHEM	69	3718	1965	65006
HONIG JG	J PHYS CHEM	58	201	1954	54009
	J PHYS CHEM	60	1108	1956	56012
	J PHYS CHEM	60	1114	1956	56013
HORI R	BULL CHEM SOC JAPAN	34	237	1961	61008
HOSOKAWA S	BULL CHEM SOC JAPAN	35	1050	1962	62033
	BULL CHEM SOC JAPAN	36	204	1963	63034
HOULTON HG	J AM CHEM SOC	60	544	1938	38008
HOYER HW	J PHYS CHEM	61	818	1957	57004
	J PHYS CHEM	65	1804	1961	61001
	J PHYS CHEM	65	1807	1961	61002
	J PHYS CHEM	68	3494	1964	64007
HSIAO L	J PHYS CHEM	59	362	1955	55020
	J PHYS CHEM	60	657	1956	56014
HUBBARD HM	J AM CHEM SOC	76	4300	1954	54014
HUBBARD WD	J PHYS CHEM	57	808	1953	53009
	J PHYS CHEM	58	1163	1954	54002
	J COLLOID SCI	10	428	1955	55003
	J PHYS CHEM	61	371	1957	57003
	J RES NAT BUR STD A	59	113	1957	57006
	J RES NAT BUR STD A	68	359	1964	64043
HUDSON JB	J COLLOID SCI	12	523	1957	57010
HUFF H	J COLLOID SCI	3	511	1948	48004
	J PHYS COLLOID CHEM	55	311	1951	51004
HUGO WB	J PHARM PHARMACOL	12	447	1960	60026
HUISMAN HF	KONINKI NED AKAD WETEN. PROC SER B	67	367	1964	64045
	KONINKI NED AKAD WETEN. PROC SER B	67	376	1964	64046
	KONINKI NED AKAD WETEN. PROC SER B	67	388	1964	64047
	KONINKI NED AKAD WETEN. PROC SER B	67	407	1964	64048
HUTCHINSON E	J PHYS CHEM	58	1124	1954	54012
	Z PHYSIK CHEM (FRANKFURT)	11	165	1957	57021
	Z PHYSIK CHEM (FRANKFURT)	21	38	1959	59018
	Z PHYSIK CHEM (FRANKFURT)	31	397	1962	62016
	J CHEM EDUC	40	472	1963	63029
	J PHYS CHEM	68	2818	1964	64037
	J PHYS CHEM	70	3502	1966	66026
IDA O	J CHEM SOC JAPAN, PURE CHEM SEC	77	905	1966	66032
IFUKU N	REV PHYS CHEM JAPAN	35	32	1965	65036
	J CHEM SOC JAPAN, PURE CHEM SEC	87	329	1966	66033
IKEDA S	BULL CHEM SOC JAPAN	34	1236	1961	61012
	BULL CHEM SOC JAPAN	35	240	1962	62022
INO T	BULL CH SOC JAPAN	30	760	1957	57033
INOUE H	J CHEM SOC JAPAN, PURE CHEM SEC	78	636	1957	57019
	J CHEM SOC JAPAN, PURE CHEM SEC	79	348	1958	58018
	J CHEM SOC JAPAN, PURE CHEM SEC	79	345	1958	58019
	J CHEM SOC JAPAN, PURE CHEM SEC	79	48	1958	58028
	J COLLOID SCI	15	268	1960	60006
	KOLLOID-Z	183	68	1962	62010
	KOLLOID-Z	196	1	1964	64019
	KOLLOID-Z	195	93	1964	64021
	PROC INTERN CONGR SURFACE ACTIVITY	4TH	N	1964	64040
	J PHYS CHEM	70	1108	1965	65033
ISEMURA T	BULL CHEM SOC JAPAN	34	1236	1961	610
	BULL CHEM SOC JAPAN	35	1737	1962	62012
	BULL CHEM SOC JAPAN	35	240	1962	62022
	BULL CHEM SOC JAPAN	36	1250	1963	63006
IWAMATSU I	BULL CHEM SOC JAPAN	35	1050	1962	62033
	BULL CHEM SOC JAPAN	36	204	1963	63034
JACOBS J	J PHARM PHARMACOL	18	925	1966	66019
JAKOB CW	J PHYS CHEM	67	8075	1963	63001
JAMES JW	PROC INTERN CONGR SURFACE ACTIVITY	3RD	227	1960	60020
JAN ZA	J PHARM PHARMACOL	15	825	1963	63021
JOHNSON JS	J PHYS CHEM	68	81	1964	64017
JOHNSON KE	J AM CHEM SOC	66	9	1944	44003
JOHNSON WF	J PHYS CHEM	50	440	1946	46006
	J PHYS COLLOID CHEM	51	636	1947	47013
	J PHYS COLLOID CHEM	52	22	1948	48025
	J AM CHEM SOC	73	4563	1951	51002
	J AM CHEM SOC	74	20	1952	52002
	J AM CHEM SOC	74	22	19	52003

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JOHNSTON SA	J AM CHEM SOC	61	3210	1939	39011
JONES E	PHIL MAG	4	841	1927	27002
JONES TG	TRANS FARADAY SOC	49	980	1953	53012
	RES CORRESPONDENCE	8	1	1955	55011
KAKIUCHI K	BULL CHEM SOC JAPAN	36	1250	1963	63006
KAPAUAN P	J COLLOID SCI	16	481	1961	61005
	J PHYS CHEM	70	783	1966	66002
KARNAUKH AM	MASLOB ZHIR FROM	29	22	1963	63039
KARTZMARK EM	CAN J CHEM	40	839	1962	62034
KASHIWAGI KM	J COLLOID SCI	13	618	1958	58021
KASHIWAGI M	BULL CHEM SOC JAPAN	32	624	1959	59017
KATO Y	CHEM PHARM BULL (TOKYO)	11	1202	1963	63037
KATSURA K	J PHYS CHEM	68	1568	1964	64011
KAUFMAN S	J COLLOID SCI	12	465	1957	57026
	J PHYS CHEM	62	1257	1958	58025
	WORLD PETROL CONGR, PROC	V 6	18	1959	59021
	J COLLOID SCI	17	231	1962	62025
	J PHYS CHEM	68	2814	1964	64041
KAWAMURA S	YAKUGAKU ZASSHI	84	246	1964	64034
KAZUO T	J CHEM SOC JAPAN, PURE CHEM SEC	79	48	1958	58028
KEIM GI	IND ENG CHEM	36	610	1944	44001
KIESSIG H	KOLLOID-Z	88	40	1939	39009
KINNEY FB	J AM OIL CHEMISTS SOC	36	332	1959	59009
	J AM OIL CHEMISTS SOC	37	16	1960	60010
	J AM OIL CHEMISTS SOC	38	138	1961	61015
KINOSHITA K	J PHYS CHEM	63	648	1959	59013
KITAHARA A	BULL CHEM SOC JAPAN	28	234	1955	55019
	BULL CHEM SOC JAPAN	29	1	1956	56015
	J COLLOID SCI	12	342	1957	57027
	BULL CHEM SOC JAPAN	30	586	1957	57028
	BULL CHEM SOC JAPAN	31	288	1957	57029
	BULL CHEM SOC JAPAN	31	653	1958	58022
	J PHYS CHEM	66	363	1962	62024
	KOGYO KAGAKU ZASSHI	68	2058	1965	65002
KRAMANN D	PROC INTERN CONGR SURFACE ACTIVITY	3RD	1	1960	60016
	PROC INTERN CONGR SURFACE ACTIVITY	3RD	27	1960	60017
KLEVENS HB	J CHEM PHYS	14	216	1946	46002
	J CHEM PHYS	14	742	1946	46007
	J CHEM PHYS	14	480	1946	46010
	J CHEM PHYS	14	567	1946	46012
	J PHYS COLLOID CHEM	51	114	1947	47004
	J COLLOID SCI	2	301	1947	47005
	J PHYS COLLOID CHEM	52	130	1948	48005
	J AM OIL CHEMISTS SOC	26	456	1949	49003
	J PHYS COLLOID CHEM	54	1012	1950	50003
	J AM CHEM SOC	72	3780	1950	50004
	ANAL CHEM	22	1141	1950	50006
	CHEM REV	47	1	1950	50007
	MEM SERV CHIM ETAT (PARIS)	37	13	1952	52004
	J AM CHEM SOC	74	4624	1952	52005
	KOLLOID-Z	128	61	1952	52008
	J AM OIL CHEMISTS SOC	30	74	1953	53010
	PROC INTERN CONGR SURFACE ACTIVITY	1ST	1	1954	54004
	J CHIM PHYS	51	1	1954	54010
	NATURE	176	879	1955	55017
	J PHYS CHEM	60	1245	1956	56001
	MEM SERV CHIM ETAT (PARIS)	41	363	1956	56010
	PROC INTERN CONGR SURFACE ACTIVITY	2ND	395	1957	57017
	KOLLOID-Z	158	53	1958	58011
KLING W	PROC INTERN CONGR SURFACE ACTIVITY	2ND	295	1957	57022
KOBAYASHI T	J PHYS CHEM	66	363	1962	62024
KOLBEL H	ANGEW CHEM	71	211	1959	59022
	PROC INTERN CONGR SURFACE ACTIVITY	3RD	1	1960	60016
	PROC INTERN CONGR SURFACE ACTIVITY	3RD	27	1960	60017
KOLTHOFF IM	J PHYS CHEM	50	440	1946	46006
	J PHYS COLLOID CHEM	51	636	1947	47013
	J PHYS COLLOID CHEM	52	915	1948	48016
	J PHYS COLLOID CHEM	52	22	1948	48025
	J PHYS COLLOID CHEM	53	424	1949	49005
	J POLYMER SCI	5	201	1950	50002
	J POLYMER SCI	5	191	1950	50005
	J AM CHEM SOC	73	4563	1951	51002
	J AM CHEM SOC	74	20	1952	52002
	J AM CHEM SOC	74	22	1952	52003
KOMOR JA	J AM OIL CHEMISTS SOC	43	435	1966	66022
KONDO A	J CHEM SOC JAPAN, PURE CHEM SEC	77	905	1966	66032
KONDO T	J CHEM SOC JAPAN, PURE CHEM SEC	77	1236	1966	66020
	BULL CHEM SOC JAPAN	30	905	1957	57032
	BULL CHEM SOC JAPAN	30	760	1957	57033
	J CHEM SOC JAPAN, PURE CHEM SEC	80	818	1959	59024

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	J CHEM SOC JAPAN, PURE CHEM SEC	80	821	1959	59025
	J CHEM SOC JAPAN, PURE CHEM SEC	80	823	1959	59026
KONNO K	KOGYO KAGAKU ZASSHI	68	2058	1965	65002
KONSTANTIN. VV	KHIM TEKHNOL	5	61	1960	60033
KOSTOVA NZ	KOLOIID ZH	26	76	1964	64051
KRAUS CA	J AM CHEM SOC	68	1137	1946	46018
	J AM CHEM SOC	69	1835	1947	47001
	J AM CHEM SOC	70	3803	1948	48010
	J AM CHEM SOC	70	3049	1948	48028
	J AM CHEM SOC	71	95	1949	49014
	J AM CHEM SOC	71	309	1949	49017
	J AM CHEM SOC	71	1455	1949	49018
	J AM CHEM SOC	72	3676	1950	50013
	J AM CHEM SOC	73	2173	1951	51009
	J AM CHEM SOC	73	799	1951	51013
	J AM CHEM SOC	73	1129	1951	51014
	J AM CHEM SOC	73	2170	1951	51016
	PROC NAT ACAD SCI U S	39	1213	1953	53011
KRIIVENTSOV WI	ZAVODSKAYA LAB	24	158	1958	58030
KRIZEK H	J COLLOID SCI	6	576	1951	51010
KRYUKOVA AS	KHIM TEKHNOL	5	61	1960	60033
KUCHER RV	COLLOID J (USSR)	14	243	1952	52018
	COLLOID J (USSR)	14	311	1952	52019
KUHN DW	J AM CHEM SOC	72	3676	1950	50013
KUHN P	ANGEW CHEM	71	211	1959	59022
KUPPUSAMI J	NATURE	208	780	1965	65028
KURIYAMA K	J CHEM SOC JAPAN, PURE CHEM SEC	78	1568	1957	57018
	J CHEM SOC JAPAN, PURE CHEM SEC	78	1573	1957	57020
	J CHEM SOC JAPAN, PURE CHEM SEC	79	348	1958	58018
	J CHEM SOC JAPAN, PURE CHEM SEC	79	345	1958	58019
	J CHEM SOC JAPAN, PURE CHEM SEC	79	48	1958	58028
	J COLLOID SCI	15	268	1960	60006
	KOLLOID-Z	180	55	1962	62009
	KOLLOID-Z	183	68	1962	62010
	KOLLOID-Z	181	144	1962	62011
	KOLLOID-Z	191	48	1963	63012
KURZ J L	J PHYS CHEM	66	2239	1962	62040
KURZENDORFER P	PROC INTERN CONGR SURFACE ACTIVITY	3RD	1	1960	60016
KUSHNER LM	J PHYS CHEM	57	808	1953	53009
	J PHYS CHEM	58	1163	1954	54002
	J COLLOID SCI	10	428	1955	55003
	J PHYS CHEM	61	371	1957	57003
	J RES NAT BUR STD A	59	113	1957	57006
KWARTLER CE	J COLLOID SCI	8	385	1953	53007
LACH JL	J AM PHARM ASSOC	43	465	1954	54015
LAKSHMINAR. GR	CAN J CHEM	40	839	1962	62034
	CAN J CHEM	43	1729	1965	65024
LAL H	J COLLOID SCI	8	414	1953	53013
LANGE H	KOLLOID-Z	121	66	1951	51005
	KOLLOID-Z	131	96	1953	53005
	PROC INTERN CONGR SURFACE ACTIVITY	2ND	295	1957	57022
	PROC INTERN CONGR SURFACE ACTIVITY	3RD	279	1960	60012
	FETTE, SEIFEN, ANSTRICHMI	64	457	1962	62018
	PROC INTERN CONGR SURFACE ACTIVITY	4TH	1	1964	64039
LARSEN EC	Z ELEKTROCHEM	44	651	1938	38004
LELONG ALM	J AM CHEM SOC	73	5411	1951	51003
	J PHYS CHEM	59	1185	1955	55021
	ANALES ASOC QUIM ARGENT	53	39	1965	65034
	ANALES ASOC QUIM ARGENT	53	11	1965	65035
LESHCHENKO ZY	MASLOB ZHIR PROM	26	24	1960	60030
	MASLOB ZHIR PROM	28	20	1962	62039
	MASLOB ZHIR PROM	29	19	1963	63038
LESYUIS AA	MASLOB ZHIR PROM	29	22	1963	63039
	BULL CHEM SOC JAPAN	28	227	1955	55008
	J CHINESE CHEM SOC	4	28	1957	57005
	J CHINESE CHEM SOC	4	21	1957	57008
LINDSTROM RE	MEDD ABO AKAD FYS KEM IN.	SP NO	3	1941	41002
	KOLLOID-Z	94	42	1941	41004
LINGAFELTER EC	J AM CHEM SOC	65	686	1943	43001
	J AM CHEM SOC	65	698	1943	43004
	J AM CHEM SOC	68	1490	1946	46003
	J AM CHEM SOC	70	1989	1948	48007
	J AM CHEM SOC	71	1325	1949	49004
	J AM CHEM SOC	73	5411	1951	51003
	J COLLOID SCI	10	71	1955	55025
LIQUORI AM	TRANS FARADAY SOC	55	1975	1959	59015
	PROC INTERN CONGR SURFACE ACTIVITY	3RD	302	1960	60024
	J MOL BIOL	3	202	1961	61023
	J PHYS CHEM	65	1991	1961	61024
	PONTIF ACAD SCIENTIAR. SCRIPTA VAR.	22	12/1	1962	62021
	RIC SCI	6	71	1964	64033

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LITTLE RC	J PHYS CHEM	68	3453	1964	64042
	J PHYS CHEM	68	2709	1964	64044
LONG FA	J AM CHEM SOC	59	2197	1937	37005
	J AM CHEM SOC	62	1496	1940	40005
	J AM CHEM SOC	63	84	1941	41006
LORENZ PB	J PHYS CHEM	60	657	1956	56014
LOTTERMOSE A	KOLLOID-Z	63	175	1933	33003
	KOLLOID-Z	63	49	1933	33004
	KOLLOID-Z	73	276	1935	35002
	TRANS FARADAY SOC	31	200	1935	35004
	KOLLOID-BEIH.	45	303	1937	37004
LOVELL VM	ANAL CHEM	38	1926	1966	66024
LUCK W	PROC INTERN CONGR SURFACE ACTIVITY	3RD	264	1960	60023
LUDLUM DB	J PHYS CHEM	60	1240	1956	56005
MACFARLANE CB	J PHARM PHARMACOL	14	100	1962	62027
	J PHARM PHARMACOL	17	65	1965	65016
MALIK WU	INDIAN J CHEM	3	441	1965	65021
	J AM OIL CHEMISTS SOC	43	446	1966	66023
MALSCH J	Z PHYSIK CHEM (LEIPZIG)	170	321	1934	34001
MANCHESTER KE	J PHYS CHEM	58	1124	1954	54012
MANDELL L	ACTA CHEM SCAND	17	111	1963	63033
MANKOWICH AM	J AM OIL CHEMISTS SOC	41	449	1964	64010
	J AM OIL CHEMISTS SOC	43	615	1966	66021
	J AM OIL CHEMISTS SOC	43	133	1966	66001
MANNING DJ	ZAVODSKAYA LAB	24	158	1958	58030
MARKAN AL	KOLLOID ZH	26	76	1964	64051
MARKINA ZN	J PHYS CHEM	65	1804	1961	61001
MARMO A	J PHYS CHEM	65	1807	1961	61002
MARON SH	J COLLOID SCI	9	382	1954	54006
MARUTA I	J CHEM SOC JAPAN, PURE CHEM SEC	82	1657	1961	61009
	J CHEM SOC JAPAN, PURE CHEM SEC	82	1512	1961	61010
	J CHEM SOC JAPAN, PURE CHEM SEC	82	1660	1961	61011
	J CHEM SOC JAPAN, PURE CHEM SEC	83	732	1962	62007
	J CHEM SOC JAPAN, PURE CHEM SEC	83	786	1962	62026
	J CHEM SOC JAPAN, PURE CHEM SEC	83	395	1962	62028
	J CHEM SOC JAPAN, PURE CHEM SEC	83	782	1962	62029
	J CHEM SOC JAPAN, PURE CHEM SEC	83	788	1962	62030
	J CHEM SOC JAPAN, PURE CHEM SEC	83	858	1962	62031
	J CHEM SOC JAPAN, PURE CHEM SEC	83	861	1962	62032
	KOGYO KAGAKU ZASSHI	68	1090	1965	65017
MATHAI K	TRANS FARADAY SOC	62	759	1966	66031
	TRANS FARADAY SOC	62	750	1966	66037
MATIJEVIC E	CROAT CHEM ACTA	29	431	1957	57001
	TRANS FARADAY SOC	54	587	1958	58020
MATSUMOTO T	J SCI HIROSHIMA UNIV, SER A-II	21	51	1957	57025
MATTOON RW	J AM CHEM SOC	68	220	1946	46013
	J COLLOID SCI	1	105	1946	46014
	J CHEM PHYS	15	763	1947	47008
MATUURA R	BULL CHEM SOC JAPAN	35	1050	1962	62033
	BULL CHEM SOC JAPAN	36	204	1963	63034
	BULL CHEM SOC JAPAN	36	813	1963	63035
	BULL CHEM SOC JAPAN	38	373	1965	65020
MAURER FW	J AM OIL CHEMISTS SOC	36	241	1959	59004
	J AM OIL CHEMISTS SOC	41	205	1964	64002
MCBAIN JW	J AM CHEM SOC	57	1905	1935	35007
	J PHYS CHEM	40	493	1936	36005
	J AM CHEM SOC	63	670	1941	41005
	J PHYS CHEM	46	10	1942	42006
	IND ENG CHEM	34	915	1942	42007
	J AM CHEM SOC	65	2072	1943	43006
	J PHYS CHEM	47	94	1943	43008
	J AM CHEM SOC	66	9	1944	44003
	J COLLOID SCI	1	127	1946	46008
	REC TRAV CHIM	65	601	1946	46016
	J AM CHEM SOC	68	731	1946	46022
	J AM CHEM SOC	69	334	1947	47007
	J COLLOID SCI	3	425	1948	48009
	J PHYS COLLOID CHEM	52	881	1948	48011
	J AM CHEM SOC	70	3838	1948	48015
	J PHYS COLLOID CHEM	52	12	1948	48026
	J PHYS COLLOID CHEM	55	311	1951	51004
MCBAIN MEL	J AM CHEM SOC	61	3210	1939	39011
	J COLLOID SCI	10	223	1955	55023
	J PHYS CHEM	47	196	1943	43007
MCCORKLE MR	J AM CHEM SOC	65	328	1943	43009
MCDOWELL MJ	J AM CHEM SOC	73	2173	1951	51009
	J AM CHEM SOC	73	2170	1951	51016
	J AM CHEM SOC	70	3838	1948	48015
MCHAN H	J AM CHEM SOC	56	701	1952	52013
MCNEILL W	J PHYS CHEM	44	1636	1952	52014
MEADER AL	IND ENG CHEM	44	1636	1952	52014

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	J POLYMER SCI	5	191	1950	50005
MEGURO K	J CHEM SOC JAPAN, PURE CHEM SEC	77	1236	1956	56020
	BULL CHEM SOC JAPAN	30	905	1957	57032
	BULL CHEM SOC JAPAN	30	760	1957	57033
	J CHEM SOC JAPAN, PURE CHEM SEC	80	818	1959	59024
	J CHEM SOC JAPAN, PURE CHEM SEC	80	821	1959	59025
	J CHEM SOC JAPAN, PURE CHEM SEC	80	823	1959	59026
	J CHEM SOC JAPAN, PURE CHEM SEC	77	905	1956	66032
MELE A	NATURE	184	1482	1959	59014
	TRANS FARADAY SOC	55	1975	1959	59015
	J PHYS CHEM	63	650	1959	59016
MERRILL RC	J PHYS COLLOID CHEM	52	774	1948	48024
MERRILL RC JR	J AM CH M S	63	670	1941	41005
	J PHYS CHEM	46	10	1942	42006
	IND ENG CHEM	34	915	1942	42007
	J PHYS COLLOID CHEM	52	12	1948	48026
METCALF AD	J COLLOID SCI	17	523	1962	62015
MEYER HG	J PHYS CHEM	70	783	1966	66002
MIJNLIEFF PF	NATURE	208	889	1965	65029
MILES GD	IND ENG CHEM	36	610	1944	44001
	J PHYS CHEM	48	57	1944	44002
	J PHYS CHEM	49	71	1945	45002
MILLER ML	J COLLOID SCI	13	411	1958	58001
MITTELMANN R	J CHEM PHYS	15	763	1947	47008
	J PHYS COLLOID CHEM	53	1350	1949	49006
	J COLLOID SCI	4	367	1949	49007
MIURA M	J SCI HIROSHIMA UNIV, SER A-II	21	51	1957	57025
	J SCI HIROSHIMA UNIV, SER A-II	22	57	1958	58023
	J SCI HIROSHIMA UNIV, SER A-II	28	41	1964	64036
MIYAMOTO S	BULL CHEM SOC JAPAN	33	375	1960	60029
	BULL CHEM SOC JAPAN	33	371	1960	60035
MODI HJ	J ELECTROCHEM SOC	106	336	1959	59019
MOLYNEUX P	TRANS FARADAY SOC	61	1043	1965	65003
MOULE D	TRANS FARADAY SOC	54	1638	1958	58006
	CAN J CHEM	37	2083	1959	59007
	CAN J CHEM	37	2086	1959	59008
MUKERJEE P	J AM CHEM SOC	77	2937	1955	55015
	J PHYS CHEM	62	1390	1958	58013
	J PHYS CHEM	62	1397	1958	58014
	J PHYS CHEM	62	1400	1958	58015
	J PHYS CHEM	62	1404	1958	58016
	J PHYS CHEM	67	190	1963	63032
	J PHYS CHEM	70	783	1966	66002
	J PHYS CHEM	70	2138	1966	66004
	J PHYS CHEM	70	2144	1966	66005
	J PHYS CHEM	70	2150	1966	66006
MUKHERJI BK	J PHYS CHEM	64	1	1960	60028
MULLEY BA	J COLLOID SCI	17	523	1962	62015
	J COLLOID SCI	19	201	1964	64009
MURRAY RC	TRANS FARADAY SOC	31	183	1935	35001
MYSELS EK	J COLLOID SCI	20	315	1965	65018
MYSELS KJ	TRANS FARADAY SOC	51	728	1955	55005
	J PHYS CHEM	59	325	1955	55014
	J AM CHEM SOC	77	2937	1955	55015
	J COLLOID SCI	10	507	1955	55016
	J PHYS CHEM	62	1390	1958	58013
	J PHYS CHEM	62	1400	1958	58015
	J PHYS CHEM	63	1696	1959	59002
	J PHYS CHEM	63	1781	1959	59003
	J COLLOID SCI	16	481	1961	61005
	J COLLOID SCI	16	462	1961	61017
	J COLLOID SCI	16	474	1961	61018
	J COLLOID SCI	20	315	1965	65018
	J PHYS CHEM	69	1466	1965	65019
	J COLLOID SCI	21	331	1966	66007
NAKADATE S	REP INST SCI TECH UNIV TOKYO	7	401	1953	53001
NAKAGAKI M	J CHEM SOC JAPAN, PURE CHEM SEC	72	113	1951	51018
	BULL CHEM SOC JAPAN	37	817	1964	64025
	YAKUGAKU ZASSHI	84	246	1964	64034
NAKAGAWA T	J CHEM SOC JAPAN, PURE CHEM SEC	78	1568	1957	57018
	J CHEM SOC JAPAN, PURE CHEM SEC	78	636	1957	57019
	J CHEM SOC JAPAN, PURE CHEM SEC	70	1573	1957	57020
	SHINOGI KENKYUSHO NEMPO	8	805	1958	58017
	J CHEM SOC JAPAN, PURE CHEM SEC	79	348	1958	58018
	J CHEM SOC JAPAN, PURE CHEM SEC	79	345	1958	58019
	J CHEM SOC JAPAN, PURE CHEM SEC	79	48	1958	58028
	J COLLOID SCI	15	268	1960	60006
	PROC INTERN CONGR SURFACE ACTIVITY	3RD	636	1960	60007
	KOLLOID-Z	168	132	1960	60009
	CHEM IND (LONDON)	14	1135	1961	61022

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	KOLLOID-Z	187	44	1963	63010
	KOLLOID-Z	191	48	1963	63012
	KOLLOID-Z	194	143	1964	64015
	KOLLOID-Z	195	93	1964	64021
	PROC INTERN CONGR SURFACE ACTIVITY	4TH	N	1964	64040
	J PHYS CHEM	70	1108	1965	65033
NAKAYAMA H	J COLLOID SCI	18	705	1963	63036
	J PHYS CHEM	70	3502	1966	66026
NASH T	CHEM IND (LONDON)		590	1958	58027
NATALE I	ANALES ASOC QUIM ARGENT	53	11	1965	65035
NAUMAN RV	J PHYS CHEM	68	3498	1964	64001
NEFF LL	J AM CHEM SOC	70	1989	1948	48007
NEWTON JM	J PHARM PHARMACOL	12	447	1960	60026
NICOLESCU A	REV CHIM AC.REP POP.ROOM.	6	309	1961	61029
NINOMIYA Y	BULL CHEM SOC JAPAN	37	817	1964	64025
NOEL DR	J AM CHEM SOC	74	2061	1952	52001
NOGUCHI J	BULL CHEM SOC JAPAN	34	1236	1961	61012
NUTTING GC	J AM CHEM SOC	59	2197	1937	37005
	J AM CHEM SOC	62	1496	1940	40005
	J AM CHEM SOC	63	84	1941	41006
OGDEN CP	PROC ROY SOC	273	84	1963	63014
	TRANS FARADAY SOC	61	583	1965	65005
OHBA N	BULL CHEM SOC JAPAN	30	905	1957	57032
	BULL CHEM SOC JAPAN	30	760	1957	57033
OHKI K	J PHYS CHEM	70	3437	1966	66027
OKUYAMA H	BULL CHEM SOC JAPAN	27	259	1954	54008
	BULL CHEM SOC JAPAN	30	186	1957	57023
OLEINIKOVA ZV	MASLOB ZHIR PROM	26	26	1960	60031
OLIVIER JP	J PHYS CHEM	63	1671	1959	59020
ULOANE JK	J AM CH M SOC	73	5411	1951	51003
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	J AM CHEM SOC	71	808	1949	49011
OSIPOW L	PROC INTERN CONGR SURFACE ACTIVITY	2ND		1957	57024
OSTER G	J COLLOID SCI	9	243	1954	54011
OSUGI J	REV PHYS CHEM JAPAN	35	32	1965	65036
	J CHEM SOC JAPAN, PURE CHEM SEC	87	329	1966	66033
OTTER RJ	J COLLOID SCI	16	462	1961	61017
	J COLLOID SCI	16	474	1961	61018
OTTEWILL RH	TRANS FARADAY SOC	62	750	1966	66037
	J CHEM SOC		1712	1958	58031
	TRANS FARADAY SOC	57	1627	1961	61004
	J COLLOID INTERFACE SCI	21	522	1966	66028
OYAMA T	TRANS FARADAY SOC	62	759	1966	66031
	J CHEM SOC JAPAN, PURE CHEM SEC	79	348	1958	58018
	J CHEM SOC JAPAN, PURE CHEM SEC	79	345	1958	58019
PACKTER A	J PHARM PHARMACOL	15	317	1963	63030
PANKHURST KGA	TRANS FARADAY SOC	42	523	1946	46021
PAQUETTE RG	J AM CHEM SOC	65	686	1943	43001
PARKER RA	J RES NAT BUR STD A	59	113	1957	57006
PARREIRA HC	ANAIS ACAD BRASIL CIENC	32	207	1960	60015
	J COLLOID INTERFACE SCI	21	522	1966	66028
PARRY GA	J CHEM SOC		626	1935	35008
PATEL RM	J PHARM SCI	55	1345	1966	66017
PATTERSON GD	J PHYS CHEM	57	247	1953	53003
PETHICA BA	CROAT CHEM ACTA	29	431	1957	57001
	TRANS FARADAY SOC	54	587	1958	58020
	PROC INTERN CONGR SURFACE ACTIVITY	3RD	227	1960	60020
PHILIPPOFF W	KOLLOID-Z	88	40	1939	39009
PHILLIPS JN	TRANS FARADAY SOC	51	728	1955	55005
	J PHYS CHEM	59	325	1955	55014
	TRANS FARADAY SOC	51	561	1955	55024
	TRANS FARADAY SOC	54	698	1958	58012
PICCIONE GA	J PHYS CHEM	46	662	1942	42003
PILPEL N	J COLLOID SCI	9	285	1954	54001
	J PHYS CHEM	60	779	1956	56004
	TRANS FARADAY SOC	57	1426	1961	61013
	CHEM REV	63	221	1963	63002
	NATURE	204	378	1964	64022
POWNEY J	TRANS FARADAY SOC	31	1510	1935	35005
	TRANS FARADAY SOC	33	851	1937	37003
	TRANS FARADAY SOC	34	372	1938	38006
PRINCEN LH	J PHYS CHEM	63	1696	1959	59002
	J PHYS CHEM	63	1781	1959	59003
PRINS W	J PHYS CHEM	59	576	1955	55002
	KONINKI NED AKAD WETEN. PROC SER B	59	190	1956	56002
	KONINKI NED AKAD WETEN. PROC SER B	59	162	1956	56007
	KONINKI NED AKAD WETEN. PROC SER B	59	298	1956	56011

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	ZESZYTY NAUK UNIW JAGIEL	211	209	1966	66035
RADLEY JA	PROC INTERN CONGR SURFACE ACTIVITY	3RD	246	1960	60021
RAISON M	COMPT REND	235	1129	1952	52016
	PROC INTERN CONGR SURFACE ACTIVITY	1ST	1	1954	54004
	J CHIM PHYS	51	1	1954	54010
RALSTON AW	J AM CHEM SOC	64	2824	1942	42001
	J AM CHEM SOC	64	772	1942	42002
	J AM CHEM SOC	64	97	1942	42005
	J AM CHEM SOC	64	2067	1942	42008
	J AM CHEM SOC	64	498	1942	42009
	J AM CHEM SOC	65	976	1943	43002
	J AM CHEM SOC	65	328	1943	43009
	J AM CHEM SOC	68	2460	1946	46001
	J AM CHEM SOC	69	883	1947	47002
	J AM CHEM SOC	69	2095	1947	47003
	J AM CHEM SOC	70	977	1948	48014
	J AM CHEM SOC	70	980	1948	48019
	J AM CHEM SOC	70	2918	1948	48020
	J AM CHEM SOC	70	983	1948	48021
	J PHYS COLLOID CHEM	52	1494	1948	48023
	J AM CHEM SOC	70	436	1948	48027
	J AM CHEM SOC	71	2145	1949	49008
	J AM CHEM SOC	71	672	1949	49009
	J AM CHEM SOC	71	671	1949	49013
RAY A	J PHYS CHEM	67	190	1963	63032
	J PHYS CHEM	70	2138	1966	66004
	J PHYS CHEM	70	2144	1966	66005
	J PHYS CHEM	70	2150	1966	66006
REED RM	J AM CHEM SOC	57	570	1935	35006
	J AM CHEM SOC	58	322	1936	36006
REEVES RL	J PHYS CHEM	69	2357	1965	65030
REITMIER RE	J AM CHEM SOC	62	2375	1940	40001
REYNOLDS CA	J AM CHEM SOC	76	4300	1954	54014
RHODES CT	TRANS FARADAY SOC	61	1043	1965	65003
RICCIERI FM	J PHARM SCI	52	1011	1963	63024
	J PHARM SCI	54	919	1965	65010
ROBINS DC	J PHARM PHARMACOL	15	522	1963	63005
	J PHARM PHARMACOL	15	157	1963	63031
ROBINSON RU	J PHYS CHEM	56	701	1952	52013
ROBSON P	TRANS FARADAY SOC	62	987	1966	66015
ROE CP	J AM CHEM SOC	76	4703	1954	54013
ROSE GRF	CAN J CHEM ENGR	F28	213	1950	50010
ROSENBLUM C	J PHYS CHEM	46	662	1942	42003
ROSS J	IND ENG CHEM	36	610	1944	44001
ROSS S	J COLLOID SCI	8	385	1953	53007
	J COLLOID SCI	12	523	1957	57010
	J PHYS CHEM	61	1261	1957	57031
	J PHYS CHEM	63	1671	1959	59020
RUSH RM	J PHYS CHEM	68	81	1964	64017
SAITO S	BULL CHEM SOC JAPAN	30	186	1957	57023
SAITO T	J CHEM SOC JAPAN, PURE CHEM SEC	82	1512	1961	61010
SAKAI T	J CHEM SOC JAPAN, PURE CHEM SEC	82	1512	1961	61010
SAMIS CS	TRANS FARADAY SOC	32	795	1936	36001
	TRANS FARADAY SOC	34	1288	1938	38005
SASAKI H	BULL CHEM SOC JAPAN	30	186	1957	57023
	BULL CHEM SOC JAPAN	30	326	1957	57030
SATA N	BULL CHEM SOC JAPAN	26	177	1953	53006
SATAKE I	BULL CHEM SOC JAPAN	35	1050	1962	62033
	BULL CHEM SOC JAPAN	36	204	1963	63034
	BULL CHEM SOC JAPAN	36	813	1963	63035
SATANEK J	J AM OIL CHEMISTS SOC	38	169	1961	61006
SATO M	REV PHYS CHEM JAPAN	35	32	1965	65036
	J CHEM SOC JAPAN, PURE CHEM SEC	87	329	1966	66033
SAWYER WM	J PHYS CHEM	62	159	1958	58029
SCHICK MJ	J PHYS CHEM	61	1062	1957	57014
	J COLLOID SCI	17	801	1962	62019
	J PHYS CHEM	66	1326	1962	62020
	J PHYS CHEM	67	1796	1963	63026
	J AM OIL CHEMISTS SOC	40	680	1963	63027
	J COLLOID SCI	18	378	1963	63028
	J PHYS CHEM	68	3585	1964	64020
	J COLLOID SCI	20	464	1965	65011
	J AM OIL CHEMISTS SOC	43	133	1966	66001
	J AM OIL CHEMISTS SOC	43	681	1966	66025
SCHMID G	Z ELEKTROCHEM	44	651	1938	38004
SCHOLBERG HM	J PHYS CHEM	57	923	1953	53014
SCHOTT H	J PHYS CHEM	68	3612	1964	64004
	J PHYS CHEM	70	2966	1966	66036

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SCOTT AB	J AM CHEM SOC	65	692	1943	43003
	J AM CHEM SOC	65	698	1943	43004
SCOTT R	NATURE	167	195	1951	51012
SEARLES J	J PHYS CHEM	40	493	1936	36005
SEBBA F	ANAL CHEM	38	1926	1966	66024
SHAFFER PM	Z PHYSIK CHEM (FRANKFURT)	31	397	1962	62016
SHANE N	J PHYS CHEM	69	968	1965	65025
SHEAFFER VE	J PHYS CHEM	68	2818	1964	64037
SHEDLOVSKY L	IND ENG CHEM	36	610	1944	44001
	J PHYS CHEM	48	57	1944	44002
	J PHYS CHEM	67	2075	1963	63001
SHIGEHARA K	BULL CHEM SOC JAPAN	38	1700	1965	650
	BULL CHEM SOC JAPAN	39	2643	1966	66009
	BULL CHEM SOC JAPAN	39	2332	1966	66010
SHIGEHIRO F	KOGYO KAGAKU ZASSHI	68	1090	1965	65017
SHINODA K	J PHYS CHEM	58	1136	1954	54003
	J PHYS CHEM	58	541	1954	54005
	BULL FAC ENG, YOKOHAMA NAT UNIV	4	77	1955	55004
	J PHYS CHEM	59	432	1955	55007
	J PHYS CHEM	60	1439	1956	56003
	J PHYS CHEM	63	648	1959	59013
	BULL CHEM SOC JAPAN	34	237	1961	61008
	J COLLOID SCI	18	705	1963	63036
	J PHYS CHEM	68	1568	1964	64011
	J PHYS CHEM	70	3502	1966	66026
SHIRAHAMA K	BULL CHEM SOC JAPAN	38	373	1965	65020
SHIRAI M	BULL CHEM SOC JAPAN	28	545	1955	55010
	BULL CHEM SOC JAPAN	29	733	1956	56009
	BULL CHEM SOC JAPAN	30	411	1957	57015
	BULL CHEM SOC JAPAN	30	542	1957	57016
	BULL CHEM SOC JAPAN	31	467	1958	58007
SHISHIDO S	BULL CHEM SOC JAPAN	24	41	1951	51017
SHOLTES EH	J COLLOID SCI	1	385	1946	46020
SHUCK GR	J AM CHEM SOC	71	1325	1949	49004
SHUTE HL	TRANS FARADAY SOC	34	758	1938	38007
SIMON E	J CHEM PHYS	15	496	1947	47012
SINGER K	ANN REP PROGR CH M (HI S. LONDON)	45	51	1948	48003
SINGLETERRY CR	J AM CHEM SOC	70	3965	1948	48017
	J COLLOID SCI	4	537	1949	49012
	J AM CHEM SOC	73	4574	1951	51007
	J PHYS CHEM	58	201	1954	54009
	J PHYS CHEM	60	1108	1956	56012
	J PHYS CHEM	60	1114	1956	56013
	J COLLOID SCI	12	465	1957	57026
	J COLLOID SCI	13	569	1958	58024
	J PHYS CHEM	62	1257	1958	58025
	WORLD PETROL CONGR. PROC	V 6	18	1959	59021
	J PHYS CHEM	68	3453	1964	64042
	J PHYS CH M	68	2709	1964	64044
SIROIS EH	J PHYS CHEM	56	701	1952	52013
SIVERTZ V	J AM CHEM SOC	61	549	1939	39007
	J AM CHEM SOC	62	2375	1940	40001
SMEDS K	ACTA CHEM SCAND	6	441	1952	52006
SMITH FD	J AM OIL CHEMISTS SOC	40	538	1963	63013
SNELL FD	PROC INTERN CONGR SURFACE ACTIVITY	2ND		1957	57024
SOLINAS M	BIOCHEM BIOPHYS ACTA	88	415	1964	64031
	J PHYS CHEM	68	3624	1964	64032
SOMASUNDARAN P	J PHYS CHEM	68	3562	1964	64035
	TRANS SME AIME		321	1964	64038
SPARKS B	TRANS FARADAY SOC	62	3244	1966	66038
SPINGOLA F	J COLLOID SCI	20	732	1965	65012
STANLEY JS	PROC INTERN CONGR SURFACE ACTIVITY	3RD	246	1960	60021
STAUFF J	Z PHYSIK CHEM (LEIPZIG)	183	55	1939	39000
STEARNS RS	J CHEM PHYS	14	215	1946	46011
	J CHEM PHYS	14	214	1946	46017
	J CHEM PHYS	15	496	1947	47012
STEIGMAN J	J COLLOID SCI	20	732	1965	65012
	J PHYS CHEM	69	968	1965	65025
STERNBERG RJ	J POLYMER SCI	5	191	1950	50005
STEWART A	TRANS FARADAY SOC	31	208	1935	35003
STEWART JC	RES CORRESPONDENCE	7	1	1955	55018
STIRTON AJ	J PHYS CHEM	60	899	1956	56008
	J PHYS CHEM	62	1083	1958	58003
	J AM OIL CHEMISTS SOC	36	241	1959	59004
	J AM OIL CHEMISTS SOC	37	679	1960	60008
	J AM OIL CHEMISTS SOC	39	55	1962	62008
	J AM OIL CHEMISTS SOC	40	538	1963	63013
	J AM OIL CHEMISTS SOC	41	205	1964	64002
	J AM OIL CHEMISTS SOC	43	157	1966	66003
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	J PHYS COLLOID CHEM	53	424	1949	49005
SURYANARAY CV	NATURE	208	780	1965	65028
SWARBICK J	TRANS FARADAY SOC	61	1043	1965	65003
SZEGLOWSKI Z	ZESZYTY NAUK UNIW JAGIEL	211	199	1966	66034
	ZESZYTY NAUK UNIW JAGIEL	211	209	1966	66035
TACHIBANA T	J PHYS CHEM	66	363	1962	62024
TAMAKI K	BULL CHEM SOC JAPAN	31	467	1958	58007
TAMAMUSHI B	REP INST SCI TECH UNIV TOKYO	7	401	1953	53001
	BULL CHEM SOC JAPAN	28	545	1955	55010
	BULL CH M S J))	9	733	1956	56009
	BULL CHEM SOC JAPAN	30	411	1957	57015
	BULL CHEM SOC JAPAN	30	542	1957	57016
	BULL CHEM SOC JAPAN	31	467	1958	58007
	J AM CHEM SOC	57	570	1935	35006
TARTAR HV	J AM CHEM SOC	58	322	1936	36006
	J AM CHEM SOC	60	544	1938	38008
	J AM CHEM SOC	61	539	1939	39002
	J AM CHEM SOC	61	549	1939	39007
	J AM CHEM SOC	61	544	1939	39010
	J AM CHEM SOC	62	2375	1940	40001
	J AM CHEM SOC	65	696	1943	43001
	J AM CHEM SOC	65	692	1943	43003
	J AM CHEM SOC	65	698	1943	43004
	J AM CHEM SOC	68	1490	1946	46003
	J AM CHEM SOC	70	1989	1948	48007
	J AM CHEM SOC	70	1992	1948	48012
	J AM CHEM SOC	73	5411	1951	51003
	J PHYS CHEM	59	1190	1955	55006
	J PHYS CHEM	59	1193	1955	55012
	J PHYS CHEM	59	1195	1955	55013
	J PHYS CHEM	59	1185	1955	55021
J COLLOID SCI	14	115	1959	59010	
J COLLOID SCI	17	243	1962	62014	
TATE JR	PROC ROY SOC	273	84	1963	63014
	TRANS FARADAY SOC	60	986	1964	64012
	TRANS FARADAY SOC	60	996	1964	64027
	TRANS FARADAY SOC	62	994	1966	66014
	TRANS FARADAY SOC	62	987	1966	66015
	TRANS FARADAY SOC	62	979	1966	66016
	KHIM TEKHNOL	5	61	1960	60033
	PHIL TRANS ROY SOC LONDON, SER A	252	225	1960	60011
TAUBMAN AB	TRANS FARADAY SOC	58	1233	1962	62004
	J COLLOID SCI	19	495	1964	64050
TAYLOR H	J PHARM SCI	54	1529	1965	65027
THAKKAR AL	J PHYS CHEM	56	701	1952	52013
THIBAUT HG	J PHARM PHARMACOL	15	522	1963	63005
THOMAS IL	J PHARM PHARMACOL	15	157	1963	63031
	J PHYS CHEM	56	701	1952	52013
TOFIAS A	J PHYS CHEM	56	701	1952	52013
TOKIWA F	J CHEM SOC JAPAN, PURE CHEM SEC	82	1657	1961	61009
	J CHEM SOC JAPAN, PURE CHEM SEC	82	1512	1961	61010
	J CHEM SOC JAPAN, PURE CHEM SEC	82	1660	1961	61011
	BULL CHEM SOC JAPAN	34	1236	1961	61012
	J CHEM SOC JAPAN, PURE CHEM SEC	83	732	1962	62007
	BULL CHEM SOC JAPAN	35	1737	1962	62012
	BULL CHEM SOC JAPAN	35	240	1962	62022
	BULL CHEM SOC JAPAN	36	222	1963	63003
	BULL CHEM SOC JAPAN	36	1589	1963	63004
	BULL CHEM SOC JAPAN	36	281	1963	63007
	BULL CHEM SOC JAPAN	36	1585	1963	63023
	J CHEM EDUC	40	472	1963	63029
	BULL CHEM SOC JAPAN	37	1837	1964	64024
	J PHYS CHEM	68	2818	1964	64037
	BULL CHEM SOC JAPAN	38	751	1965	65014
	J PHYS CHEM	70	3437	1966	66027
	J PHYS CHEM	69	2357	1965	65030
TONG LKJ	J CHEM SOC JAPAN, PURE CHEM SEC	78	1573	1957	57020
TORI K	KOLLOID-Z	168	132	1960	60009
	KOLLOID-Z	189	50	1963	63008
	KOLLOID-Z	188	47	1963	63009
	KOLLOID-Z	187	44	1963	63010
	KOLLOID-Z	191	48	1963	63012
	KOLLOID-Z	194	143	1964	64015
	KONINKI NED AKAD WETEN. PROC SER B	58	97	1955	55009
TRAP HJL	J PHYS CHEM	67	1987	1963	63017
	J AM OIL CHEMISTS SOC	41	231	1964	64013
	J PHYS CHEM	68	3592	1964	64014
	J COLLOID SCI	20	191	1965	65001
TREBBI GF	KOLLOID ZH	26	76	1964	64051
	J PHYS CHEM	66	1839	1962	62035
TSIKURINA NN	J PHYS CHEM	66	1839	1962	62035
TUDDENHAM RF	J PHYS CHEM	66	1839	1962	62035

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TYUZYO K	BULL CHEM SOC JAPAN	26	177	1953	53006
	BULL CHEM SOC JAPAN	27	259	1954	54008
	BULL CHEM SOC JAPAN	31	117	1958	58026
UBBELOHDE AR	KOLLOID-Z	175	40	1961	61025
	J COLLOID SCI	8	424	1953	53008
	J COLLOID SCI	9	382	1954	54006
ULEVITCH IN	PROC INTERN CONGR SURFACE ACTIVITY	3RD	248	1960	60022
V DEN TEMPEL M	PROC INTERN CONGR SURFACE ACTIVITY	3RD	276	1960	60013
V VOORST VA.F	TRANS FARADAY SOC	56	1078	1960	60014
	PROC INTERN CONGR SURFACE ACTIVITY	3RD	248	1960	60022
	TRANS FARADAY SOC	56	1067	1960	60025
VASSILIADES T	TRANS FARADAY SOC	57	110	1961	61026
	J PHYS CHEM	65	1781	1961	61027
	J PHYS CHEM	65	1774	1961	61028
VEIS A	J COLLOID SCI	15	427	1960	60001
VENABLE RL	J PHYS CHEM	68	3498	1964	64001
VERGNOLLE J	MEM SERV CHIM ETAT (PARIS)	41	363	1956	56010
	PROC INTERN CONGR SURFACE ACTIVITY	2ND	395	1957	57017
VERMA SP	INDIAN J CHEM	3	441	1965	65021
VETTER RJ	J PHYS COLLOID CHEM	51	263	1947	47011
VINOGRAD JR	J AM CHEM SOC	63	670	1941	41005
VOEKS JF	J PHYS CHEM	59	1190	1955	55006
WACHS W	KOLLOID-Z	181	139	1962	62023
WAGNER E	PROC INTERN CONGR SURFACE ACTIVITY	3RD	27	1960	60017
WALKER T	TRANS FARADAY SOC	61	589	1965	65004
WALTON HF	J COLLOID SCI	1	385	1946	46020
WAN LSC	J PHARM SCI	55	1395	1966	66018
WARD AFH	J CHEM SOC	522	1939	39003	
	PROC ROY SOC	176	412	1940	40004
WASIK SP	J RES NAT BUR STD A	68	359	1964	64043
WATARI Y	J SCI HIROSHIMA UNIV, SER A-II	28	41	1964	64036
WEATHERBURN AS	CAN J CHEM ENGR	28	213	1950	50010
WEIL JK	J PHYS CHEM	60	899	1956	56008
	J PHYS CHEM	62	1083	1958	58003
	J AM OIL CHEMISTS SOC	36	241	1959	59004
	J AM OIL CHEMISTS SOC	37	679	1960	60008
	J AM OIL CHEMISTS SOC	39	55	1962	62008
	J AM OIL CHEMISTS SOC	40	538	1963	63013
	J AM OIL CHEMISTS SOC	41	205	1964	64002
	J AM OIL CHEMISTS SOC	43	157	1966	66003
WEINER ND	J PHARM SCI	54	436	1965	65026
WESTWELL AE	J PHYS CHEM	63	1022	1959	59011
	J PHYS CHEM	68	3490	1964	64018
WHEELER OL	J AM CHEM SOC	68	1480	1946	46003
	J AM CHEM SOC	70	1989	1948	48007
WHITE P	J COLLOID SCI	13	584	1958	58005
	TRANS FARADAY SOC	54	1638	1958	58006
	CAN J CHEM	37	2086	1959	59008
	TRANS FARADAY SOC	55	1025	1959	59012
	J PHYS CHEM	64	599	1960	60002
WILDER AG	J PHYS COLLOID CHEM	52	12	1948	48026
WILLIAMS DE	J POLYMER SCI	5	201	1950	50002
WILLIAMS EF	J COLLOID SCI	12	452	1957	57009
WILLIAMS G	ANN REP PROGR CHEM (CH. S. LONDON)	45	51	1948	48003
WILLIAMS RJ	TRANS FARADAY SOC	51	728	1955	55005
WINSLOW L	J PHYS CHEM	58	1124	1954	54012
	Z PHYSIK CHEM (FRANKFURT)	11	165	1957	57021
WINSOR PA	TRANS FARADAY SOC	44	463	1948	48008
	J PHYS CHEM	56	391	1952	52009
WOODBERRY N	J COLLOID SCI	12	452	1957	57009
WOODWARD RJ	J PHARM PHARMACOL	15	422	1963	63015
WRIGHT KA	J AM CHEM SOC	61	539	1939	39002
	J AM CHEM SOC	61	549	1939	39007
	J AM CHEM SOC	61	544	1939	39010
YAMAGUCHI T	BULL CHEM SOC JAPAN	34	237	1961	61008
YAMANAKA T	J PHYS CHEM	63	648	1959	59013
YANG JT	J PHYS CHEM	57	628	1953	53015
YODA O	J CHEM SOC JAPAN, PURE CHEM SEC	77	1236	1956	56020
	BULL CHEM SOC JAPAN	30	760	1957	57033
YOUNG HS	J AM CHEM SOC	71	309	1949	49017
YURZHENKO AI	COLLOID J (USSR)	14	243	1952	52018
	COLLOID J (USSR)	14	311	1952	52019
ZAKHAROVA NN	UKR KHIM ZH	28	611	1962	62038
ZOELLNER M	J PHYS CHEM	65	1804	1961	61001
ZOGRAPHI G	J PHARM SCI	54	436	1965	65026
ZUTRAUEN HA	J PHARM SCI	55	1345	1966	66017
	J CHIM PHYS	53	62	1956	56017

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27001	EKWALL P	ACTA ACAD ABOENSIS, MATH PHYS	4	1	1927	YIELDED 5 ENTRIES
27002	JONES E	PHIL MAG	4	841	1927	YIELDED 2 ENTRIES
28001	EKWALL P	KOLLOID-Z	45	291	1928	NO ENTRIES
29001	GRINDLEY J	J CHEM SOC		679	1929	YIELDED 5 ENTRIES
30001	DAVIES DG	J CHEM SOC		2263	1930	YIELDED 1 ENTRIES
32001	EKWALL P	KOLLOID-Z	161	195	1932	YIELDED 5 ENTRIES
33001	EKWALL P	ACTA ACAD ABOENSIS, MATH PHYS	7	3	1933	NO ENTRIES
33002	EKWALL P	ACTA ACAD ABOENSIS, MATH PHYS	7	3	1933	NO ENTRIES
33003	LOTTERMOSER A	KOLLOID-Z	63	175	1933	NO ENTRIES
33004	LOTTERMOSER A	KOLLOID-Z	63	49	1933	NO ENTRIES
34001	MALSCH J	Z PHYSIK CHEM (LEIPZIG)	170	321	1934	YIELDED 1 ENTRIES
35001	MURRAY RC	TRANS FARADAY SOC	31	183	1935	YIELDED 1 ENTRIES
35002	LOTTERMOSER A	KOLLOID-Z	73	276	1935	NO ENTRIES
35003	STEWART A	TRANS FARADAY SOC	31	208	1935	NO ENTRIES
35004	LOTTERMOSER A	TRANS FARADAY SOC	31	200	1935	NO ENTRIES
35005	POWNEY J	TRANS FARADAY SOC	31	1510	1935	NO ENTRIES
35006	REED RM	J AM CHEM SOC	57	570	1935	NO ENTRIES
35007	MCBAIN JW	J AM CHEM SOC	57	1905	1935	NO ENTRIES
35008	BURY CR	J CHEM SOC		626	1935	YIELDED 2 ENTRIES
36001	HARTLEY GS	TRANS FARADAY SOC	32	795	1936	YIELDED 5 ENTRIES
36002	HARTLEY GS	J AM CHEM SOC	58	2347	1936	YIELDED 8 ENTRIES
36003	EKWALL P	KOLLOID-Z	77	320	1936	NO ENTRIES
36004	ADAM NK	TRANS FARADAY SOC	32	653	1936	NO ENTRIES
36005	MCBAIN JW	J PHYS CHEM	40	493	1936	NO ENTRIES
36006	REED RM	J AM CHEM SOC	58	322	1936	NO ENTRIES
37001	EKWALL P	KOLLOID-Z	80	77	1937	NO ENTRIES
37003	POWNEY J	TRANS FARADAY SOC	33	851	1937	NO ENTRIES
37004	LOTTERMOSER A	KOLLOID-BEIH.	45	303	1937	NO ENTRIES
37005	LONG FA	J AM CHEM SOC	59	2197	1937	NO ENTRIES
38001	HARTLEY GS	J CHEM SOC		1968	1938	YIELDED 4 ENTRIES
38002	EKWALL P	KOLLOID-Z	84	284	1938	NO ENTRIES
38003	HARTLEY GS	NATURE	142	161	1938	NO ENTRIES
38004	SCHMID G	Z ELEKTROCHEM	44	651	1938	NO ENTRIES
38005	SAMIS CS	TRANS FARADAY SOC	34	1288	1938	NO ENTRIES
38006	POWNEY J	TRANS FARADAY SOC	34	372	1938	YIELDED 7 ENTRIES
38007	ADAM NK	TRANS FARADAY SOC	34	758	1938	NO ENTRIES
38008	HOULTON HG	J AM CHEM SOC	60	544	1938	NO ENTRIES
39001	HARTLEY GS	TRANS FARADAY SOC	35	1109	1939	NO ENTRIES
39002	TARTAR HV	J AM CHEM SOC	61	539	1939	YIELDED 5 ENTRIES
39003	WARD AFH	J CHEM SOC		522	1939	NO ENTRIES
39004	EKWALL P	FINSKA KEMISTSAMFUNDETS MEDD		8	1939	NO ENTRIES
39005	HARTLEY GS	KOLLOID-Z	88	22	1939	NO ENTRIES
39006	STAUFF J	Z PHYSIK CHEM (LEIPZIG)	183	55	1939	YIELDED 5 ENTRIES
39007	WRIGHT KA	J AM CHEM SOC	61	549	1939	YIELDED 12 ENTRIES
	TARTAR HV					
39008	HARTLEY GS	J CHEM SOC		1828	1939	NO ENTRIES
39009	HESS K	KOLLOID-Z	88	40	1939	YIELDED 9 ENTRIES
39010	WRIGHT KA	J AM CHEM SOC	61	544	1939	NO ENTRIES
39011	MCBAIN MEL	J AM CHEM SOC	61	3210	1939	YIELDED 7 ENTRIES
40001	TARTAR HV	J AM CHEM SOC	62	2375	1940	NO ENTRIES
40002	EKWALL P	KOLLOID-Z	92	141	1940	NO ENTRIES
40003	EKWALL P	TEK FOREN FINLAND FORH	10	1	1940	YIELDED 4 ENTRIES
40004	WARD AFH	PROC ROY SOC	176	412	1940	YIELDED 8 ENTRIES
40005	NUTTING GC	J AM CHEM SOC	62	1496	1940	NO ENTRIES
41001	HARTLEY GS	TRANS FARADAY SOC	37	130	1941	NO ENTRIES
41002	EKWALL P	MEDD. ABO AKAD. FYS. KEM. IN.	SP NO	3	1941	NO ENTRIES
41003	EKWALL P	KOLLOID-Z	97	71	1941	YIELDED 2 ENTRIES
41004	EKWALL P	KOLLOID-Z	94	42	1941	YIELDED 1 ENTRIES
41005	MCBAIN JW	J AM CHEM SOC	63	670	1941	NO ENTRIES
41006	NUTTING GC	J AM CHEM SOC	63	84	1941	NO ENTRIES
42001	HOERR CW	J AM CHEM SOC	64	2824	1942	NO ENTRIES
42002	RALSTON AW	J AM CHEM SOC	64	772	1942	YIELDED 7 ENTRIES
42003	HAFNER FD	J PHYS CHEM	46	662	1942	YIELDED 8 ENTRIES
42004	EKWALL P	KOLLOID-Z	101	135	1942	YIELDED 10 ENTRIES
42005	RALSTON AW	J AM CHEM SOC	64	97	1942	NO ENTRIES
12006	MERRILL RC JR	J PHYS CHEM	46	10	1942	NO ENTRIES
12007	MCBAIN JW	IND ENG CHEM	34	915	1942	NO ENTRIES
42008	HOFFMAN EJ	J AM CHEM SOC	64	2067	1942	NO ENTRIES
42009	HOFFMAN EJ	J AM CHEM SOC	64	498	1942	NO ENTRIES
43001	PAQUETTE RC	J AM CHEM SOC	65	686	1943	YIELDED 8 ENTRIES
43002	HOERR CW	J AM CHEM SOC	65	976	1943	NO ENTRIES
43003	SCOTT AB	J AM CHEM SOC	65	692	1943	YIELDED 10 ENTRIES
43004	SCOTT AB	J AM CHEM SOC	65	698	1943	YIELDED 2 ENTRIES
43005	EKWALL P	FINSKA KEMISTSAMFUNDETS MEDD	25	257	1943	NO ENTRIES
43006	MCBAIN JW	J AM CHEM SOC	65	2072	1943	YIELDED 2 ENTRIES

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43007	MCBAIN ML	J PHYS CHEM	47	196	1943	NO ENTRIES
43008	MCBAIN JW	J PHYS CHEM	47	94	1943	NO ENTRIES
43009	HOERR CW	MCCORKLE MR RALSTON AW	65	328	1943	NO ENTRIES
44001	DREGER EE	KEIM GI MILES GD	36	610	1944	NO ENTRIES
	SHEDLOVSKY L	ROSS J				
44002	MILES GD	SHEDLOVSKY L	48	57	1944	NO ENTRIES
44003	MCBAIN JW	JOHNSON KE	66	9	1944	NO ENTRIES
45001	GONICK E	J AM CHEM SOC	67	1191	1945	NO ENTRIES
45002	MILES GD	J PHYS CHEM	49	71	1945	NO ENTRIES
46001	RALSTON AW	HOERR CW	68	2460	1946	YIELDED 6 ENTRIES
46002	CORRIN ML	KLEVENS HB	14	216	1946	YIELDED 3 ENTRIES
46003	LINGAFELTER EC	WHEELER OL TARTAR HV	68	1490	1946	NO ENTRIES
46004	CORRIN ML	HARKINS WD	14	640	1946	YIELDED 11 ENTRIES
46005	CORRIN ML	HARKINS WD	14	641	1946	YIELDED 5 ENTRIES
46006	KOLTHOFF IM	JOHNSON WF	50	440	1946	YIELDED 5 ENTRIES
46007	KLEVENS HB	J CHEM PHYS	14	742	1946	YIELDED 8 ENTRIES
46008	GONICK E	MCBAIN JW	1	127	1946	YIELDED 1 ENTRIES
46009	GONICK E	J COLLOID SCI	1	393	1946	NO ENTRIES
46010	CORRIN ML	KLEVENS HB HARKINS WD	14	480	1946	YIELDED 7 ENTRIES
46011	HARKINS WD	STEARNS RS	14	215	1946	NO ENTRIES
46012	KLEVENS HB	J CHEM PHYS	14	567	1946	YIELDED 2 ENTRIES
46013	HARKINS WD	MATTOON RW CORRIN ML	68	220	1946	NO ENTRIES
46014	HARKINS WD	MATTOON RW CORRIN ML	1	105	1946	NO ENTRIES
46015	CORRIN ML	HARKINS WD	1	469	1946	YIELDED 37 ENTRIES
46016	GONICK E	MCBAIN JW	65	601	1946	YIELDED 1 ENTRIES
46017	STEARNS RS	HARKINS WD	14	214	1946	NO ENTRIES
46018	EVERS EC	GRIEGER PF KRAUS CA	68	1137	1946	NO ENTRIES
46019	GONICK E	J AM CHEM SOC	68	177	1946	YIELDED 2 ENTRIES
46020	WALTON HF	HIEBERT EN SHOLTES EH	1	385	1946	NO ENTRIES
46021	ADAM NK	PANKHURST KGA	42	523	1946	NO ENTRIES
46022	MCBAIN JW	GREEN AA	68	731	1946	NO ENTRIES
47001	BROWN GL	GRIEGER PF EVERS EC	69	1835	1947	NO ENTRIES
	KRAUS CA					
47002	RALSTON AW	HOERR CW	69	883	1947	NO ENTRIES
47003	RALSTON AW	EGGENBERGER DN HARWOOD HJ	69	2095	1947	YIELDED 7 ENTRIES
	DU BROW PL					
47004	KLEVENS HB	J PHYS COLLOID CHEM	51	114	1947	YIELDED 27 ENTRIES
47005	KLEVENS HB	J COLLOID SCI	2	301	1947	YIELDED 19 ENTRIES
47006	HARKINS WD	CORRIN ML	69	679	1947	YIELDED 14 ENTRIES
47007	GONICK E	MCBAIN JW	69	334	1947	YIELDED 2 ENTRIES
47008	HARKINS WD	MATTOON RW MITTELMANN R	15	763	1947	NO ENTRIES
47009	HARKINS WD	J AM CHEM SOC	69	1428	1947	NO ENTRIES
47010	CORRIN ML	HARKINS WD	69	683	1947	YIELDED 106 ENTRIES
47011	VETTER RJ	J PHYS COLLOID CHEM	51	263	1947	YIELDED 2 ENTRIES
47012	STEARNS RS	OPPENHEIMER H SIMON E	15	496	1947	NO ENTRIES
	HARKINS WD					
47013	CARR CW	JOHNSON WF KOLTHOFF IM	51	636	1947	YIELDED 6 ENTRIES
48001	DAINTON FS	ANN REP PROGR CHEM (CH. S. LONDON)	45	5	1948	NO ENTRIES
48002	HARTLEY GS	ANN REP PROGR CHEM (CH. S. LONDON)	45	33	1948	NO ENTRIES
48003	WILLIAMS G	SINGER K	45	51	1948	NO ENTRIES
48004	BRADY AP	HUFF H	3	511	1948	YIELDED 10 ENTRIES
48005	KLEVENS HB	J PHYS COLLOID CHEM	52	130	1948	YIELDED 68 ENTRIES
48006	DEBYE P	J COLLOID SCI	3	407	1948	NO ENTRIES
48007	NEFF LL	WHEELER OL TARTAR HV	70	1989	1948	YIELDED 1 ENTRIES
	LINGAFELTER EC					
48008	WINSOR PA	TRANS FARADAY SOC	44	463	1948	YIELDED 23 ENTRIES
48009	CUSHMAN A	BRADY AP MCBAIN JW	3	425	1948	YIELDED 5 ENTRIES
48010	GRIEGER PF	KRAUS CA	70	3803	1948	YIELDED 7 ENTRIES
48011	FINEMAN MN	MCBAIN JW	52	881	1948	YIELDED 10 ENTRIES
48012	GREGORY NW	TARTAR HV	70	1992	1948	YIELDED 2 ENTRIES
48013	CORRIN ML	J COLLOID SCI	3	333	1948	NO ENTRIES
48014	RALSTON AW	EGGENBERGER DN DU BROW PL	70	977	1948	YIELDED 1 ENTRIES
48015	MCBAIN JW	MCHAN H	70	3838	1948	NO ENTRIES
48016	KOLTHOFF IM	STRICKS W	52	915	1948	YIELDED 19 ENTRIES
48017	ARKIN L	SINGLETERRY CR	70	3965	1948	NO ENTRIES
48018	EXNER ML	NATURWISSENSCHAFTEN	35	344	1948	YIELDED 1 ENTRIES
48019	RALSTON AW	EGGENBERGER DN	70	980	1948	NO ENTRIES
48020	RALSTON AW	EGGENBERGER DN	70	2918	1948	YIELDED 9 ENTRIES
48021	RALSTON AW	EGGENBERGER DN	70	983	1948	YIELDED 4 ENTRIES
48022	BRADY AP	J PHYS COLLOID CHEM	3	57	1948	YIELDED 2 ENTRIES
48023	RALSTON AW	EGGENBERGER DN	52	1494	1948	YIELDED 9 ENTRIES
48024	MERRILL RC	GETTY R	52	774	1948	YIELDED 76 ENTRIES
48025	KOLTHOFF IM	JOHNSON WF	52	22	1948	YIELDED 6 ENTRIES
48026	MCBAIN JW	WILDER AG MERRILL RC JR	52	12	1948	NO ENTRIES
48027	RALSTON AW	EGGENBERGER DN	70	455	1948	YIELDED 6 ENTRIES
48028	EVERS EC	KRAUS CA	70	3049	1948	YIELDED 17 ENTRIES
49001	DEBYE P	ANN N Y ACAD SCI	51	575	1949	YIELDED 8 ENTRIES
49002	DEBYE P	J PHYS COLLOID CHEM	53	1	1949	NO ENTRIES
49003	KLEVENS HB	J AM OIL CHEMISTS SOC	26	456	1949	NO ENTRIES
49004	SHUCK GR	LINGAFELTER EC	71	1325	1949	YIELDED 3 ENTRIES

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49005	KOLTHOFF IM	STRICKS W	J PHYS COLLOID CHEM	53	424	1949	YIELDED 49 ENTRIES
49006	HARKINS WD	MITTELMANN R CORRIN ML	J PHYS COLLOID CHEM	53	1350	1949	YIELDED 41 ENTRIES
49007	HARKINS WD	MITTELMANN R	J COLLOID SCI	4	367	1949	NO ENTRIES
49008	RALSTON AW	EGGENBERGER DN BROOME FK	J AM CHEM SOC	71	2145	1949	YIELDED 45 ENTRIES
49009	RALSTON AW	EGGENBERGER DN HARWOOD HJ	J AM CHEM SOC	71	672	1949	YIELDED 1 ENTRIES
49010	HARTLEY GS		NATURE	163	767	1949	NO ENTRIES
49011	HARKINS WD	OPPENHEIMER H	J AM CHEM SOC	71	808	1949	NO ENTRIES
49012	ARKIN L	SINGLETERRY CR	J COLLOID SCI	4	537	1949	NO ENTRIES
49013	RALSTON AW	BROOME FK HARWOOD HJ	J AM CHEM SOC	71	671	1949	YIELDED 4 ENTRIES
49014	BROWN GL	GRIEGER PF KRAUS CA	J AM CHEM SOC	71	95	1949	YIELDED 22 ENTRIES
49015	ADCOCK WA	COLE RH	J AM CHEM SOC	71	2835	1949	NO ENTRIES
49017	YOUNG HS	GRIEGER PF KRAUS CA	J AM CHEM SOC	71	309	1949	YIELDED 15 ENTRIES
49018	GRIEGER PF	KRAUS CA	J AM CHEM SOC	71	1455	1949	YIELDED 2 ENTRIES
50001	DEBYE P		AN. R. SOC ESPAN FIS QUIM (MADRID)	46	335	1950	NO ENTRIES
50002	CARR CW	KOLTHOFF IM MEEHAN EJ	J POLYMER SCI	5	201	1950	NO ENTRIES
	WILLIAMS DE						
50003	KLEVENS HB		J PHYS COLLOID CHEM	54	1012	1950	YIELDED 30 ENTRIES
50004	KLEVENS HB		J AM CHEM SOC	72	3780	1950	NO ENTRIES
50005	CARR CW	KOLTHOFF IM MEEHAN EJ	J POLYMER SCI	5	191	1950	NO ENTRIES
	STERNBERG RJ						
50006	KLEVENS HB		ANAL CHEM	22	1141	1950	NO ENTRIES
50007	KLEVENS HB		CHEM REV	47	1	1950	NO ENTRIES
50008	HERZFELD SH	CORRIN ML HARKINS WD	J PHYS COLLOID CHEM	54	271	1950	YIELDED 98 ENTRIES
50009	GOTTE E		KOLLOID-Z	117	42	1950	NO ENTRIES
50010	WEATHERBURN AS	ROSE GRF	CAN J CHEM ENGR	F28	213	1950	NO ENTRIES
50011	HARKINS WD		SCI MONTHLY	70	220	1950	NO ENTRIES
50012	COLICHMAN EL		J AM CHEM SOC	72	4036	1950	YIELDED 38 ENTRIES
50013	KUHN DW	KRAUS CA	J AM CHEM SOC	72	3676	1950	NO ENTRIES
51001	DEBYE P	ANACKER EW	J PHYS COLLOID CHEM	55	644	1951	YIELDED 1 ENTRIES
51002	KOLTHOFF IM	JOHNSON WF	J AM CHEM SOC	73	4563	1951	NO ENTRIES
51003	LELONG ALM	TARTAR HV LINGAFELTER EC	J AM CHEM SOC	73	5411	1951	YIELDED 10 ENTRIES
	OLOANE JK	CADLE RD					
51004	HUFF H	MCBAIN JW	J PHYS COLLOID CHEM	55	311	1951	YIELDED 29 ENTRIES
51005	LANGE H		KOLLOID-Z	121	66	1951	YIELDED 94 ENTRIES
51006	EGGENBERGER DN	HARWOOD HJ	J AM CHEM SOC	73	3353	1951	YIELDED 8 ENTRIES
51007	SINGLETERRY CR	ARKIN L	J AM CHEM SOC	73	4574	1951	NO ENTRIES
51008	COLICHMAN EL		J AM CHEM SOC	73	3385	1951	YIELDED 15 ENTRIES
51009	MCDOWELL MJ	KRAUS CA	J AM CHEM SOC	73	2173	1951	YIELDED 5 ENTRIES
51010	HARKINS WD	KRIZEK H	J COLLOID SCI	6	576	1951	YIELDED 6 ENTRIES
51011	HENNE AL	FOX CJ	J AM CHEM SOC	73	2323	1951	NO ENTRIES
51012	SCOTT R	BOLAM TR	NATURE	167	195	1951	NO ENTRIES
51013	DAGGETT HM JR	BAIR EJ KRAUS CA	J AM CHEM SOC	73	799	1951	NO ENTRIES
51014	BAIR EJ	KRAUS CA	J AM CHEM SOC	73	1129	1951	NO ENTRIES
51016	MCDOWELL MJ	KRAUS CA	J AM CHEM SOC	73	2170	1951	NO ENTRIES
51017	SHISHIDO S		BULL CHEM SOC JAPAN	24	41	1951	NO ENTRIES
51018	NAKAGAKI M		J CHEM SOC JAPAN, PURE CHEM SEC	72	113	1951	NO ENTRIES
52001	CELLA JA	EGGENBERGER DN NOEL DR	J AM CHEM SOC	74	2061	1952	YIELDED 14 ENTRIES
	HARRIMAN LA	HARWOOD HJ					
52002	KOLTHOFF IM	JOHNSON WF	J AM CHEM SOC	74	20	1952	NO ENTRIES
52003	JOHNSON WF	KOLTHOFF IM	J AM CHEM SOC	74	22	1952	NO ENTRIES
52004	KLEVENS HB		MEM SERV CHIM ETAT (PARIS)	37	13	1952	NO ENTRIES
52005	KLEVENS HB		J AM CHEM SOC	74	4624	1952	NO ENTRIES
52006	EKWALL P	SMEDS K	ACTA CHEM SCAND	6	441	1952	NO ENTRIES
52007	EKWALL P	HASAN A	ACTA CHEM SCAND	6	440	1952	NO ENTRIES
52008	KLEVENS HB		KOLLOID-Z	128	61	1952	NO ENTRIES
52009	WINSOR PA		J PHYS CHEM	56	391	1952	NO ENTRIES
52011	BURY CR	BROWNING J	TRANS FARADAY SOC	48	209	1952	YIELDED 3 ENTRIES
52013	BROWN AS	ROBINSON RU	J PHYS CHEM	56	701	1952	YIELDED 3 ENTRIES
	THIBAUT HC	MCNEILL W TOFIAS A					
	MEADER AL	FRIES BA	IND ENG CHEM	44	1636	1952	NO ENTRIES
52015	HERZFELD SH		J PHYS CHEM	56	953	1952	YIELDED 20 ENTRIES
52016	RAISON M		COMPT REND	235	1129	1952	YIELDED 10 ENTRIES
52017	HERZFELD SH		J PHYS CHEM	56	959	1952	YIELDED 108 ENTRIES
52018	YURZHENKO AI	KUCHER RV	COLLOID J (USSR)	14	243	1952	YIELDED 3 ENTRIES
52019	YURZHENKO AI	KUCHER RV	COLLOID J (USSR)	14	311	1952	NO ENTRIES
53001	TAMAMUSHI B	NAKADATE S	REP INST SCI TECH UNIV TOKYO	7	401	1953	YIELDED 2 ENTRIES
53002	ANACKER EW		J COLLOID SCI	8	402	1953	YIELDED 5 ENTRIES
53003	ARRINGTON CH	PATTERSON GD	J PHYS CHEM	57	247	1953	YIELDED 13 ENTRIES
53004	FLOCKHART BD	GRAHAM H	J COLLOID SCI	8	105	1953	YIELDED 5 ENTRIES
53005	LANGE H		KOLLOID-Z	131	96	1953	YIELDED 21 ENTRIES
53006	SATA N	TYUZYU K	BULL CHEM SOC JAPAN	26	177	1953	YIELDED 11 ENTRIES
53007	ROSS S	KWARTLER CE	J COLLOID SCI	8	385	1953	YIELDED 19 ENTRIES
53008	FLOCKHART BD	UBBELOHDE AR	J COLLOID SCI	8	424	1953	YIELDED 29 ENTRIES
53009	KUSHNER LM	HUBBARD WD	J PHYS CHEM	57	808	1953	NO ENTRIES
53010	KLEVENS HB		J AM OIL CHEMISTS SOC	30	74	1953	YIELDED 31 ENTRIES
53011	KRAUS CA		PROC NAT ACAD SCI U S	39	1213	1953	NO ENTRIES
53012	GODDARD ED	HARVA O JONES TG	TRANS FARADAY SOC	49	980	1953	YIELDED 61 ENTRIES
53013	LAL H		J COLLOID SCI	8	414	1953	NO ENTRIES
53014	SCHOLBERG HM	GUENTHNER RA COON RI	J PHYS CHEM	57	923	1953	NO ENTRIES
53015	YANG JT	FOSTER JF	J PHYS CHEM	57	628	1953	YIELDED 2 ENTRIES

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Reference No.	Authors	Journal	Vol.	Pg.	Year	No. of Entries from Reference
54001	PILPEL N	J COLLOID SCI	9	285	1954	NO ENTRIES
54002	KUSHNER LM HUBBARD WD	J PHYS CHEM	58	1163	1954	NO ENTRIES
54003	SHINODA K	J PHYS CHEM	58	1136	1954	YIELDED 57 ENTRIES
54004	KLEVENS HB RAISSON M	PROC INTERN CONGR SURFACE ACTIVITY	1ST	1	1954	YIELDED 25 ENTRIES
54005	SHINODA K	J PHYS CHEM	58	541	1954	YIELDED 139 ENTRIES
54006	MARON SH ELDER ME ULEVITCH IN	J COLLOID SCI	9	382	1954	YIELDED 10 ENTRIES
54007	GOTTE E	FETTE, SEIFEN, ANSTRICHMI	56	583	1954	NO ENTRIES
54008	OKUYAMA H TYUZO K	BULL CHEM SOC JAPAN	27	259	1954	YIELDED 3 ENTRIES
54009	HONIG JG SINGLETERRY CR	J PHYS CHEM	58	201	1954	NO ENTRIES
54010	KLEVENS HB RAISSON M	J CHIM PHYS	51	1	1954	YIELDED 25 ENTRIES
54011	COHEN I HISKEY CF OSTER G	J COLLOID SCI	9	243	1954	NO ENTRIES
54012	HUTCHINSON E MANCHESTER KE WINSLOW L	J PHYS CHEM	58	1124	1954	NO ENTRIES
54013	ROE CP BRASS PD	J AM CHEM SOC	76	4703	1954	YIELDED 4 ENTRIES
54014	HUBBARD HM REYNOLDS CA	J AM CHEM SOC	76	4300	1954	NO ENTRIES
54015	HIGUCHI T LACH JL	J AM PHARM ASSOC	43	465	1954	NO ENTRIES
55001	HERMANS JJ	KONINKI NED AKAD WETEN. PROC SER B	58	91	1955	NO ENTRIES
55002	PRINS W HERMANS JJ	J PHYS CHEM	59	576	1955	NO ENTRIES
55003	KUSHNER LM HUBBARD WD	J COLLOID SCI	10	428	1955	YIELDED 6 ENTRIES
55004	SHINODA K	BULL FAC ENG, YOKOHAMA NAT UNIV	4	77	1955	YIELDED 167 ENTRIES
55005	WILLIAMS RJ PHILLIPS JN MYSELS KJ	TRANS FARADAY SOC	51	728	1955	YIELDED 17 ENTRIES
55006	VOEKS JF TARTAR HV	J PHYS CHEM	59	1190	1955	YIELDED 2 ENTRIES
55007	SHINODA K	J PHYS CHEM	59	432	1955	YIELDED 39 ENTRIES
55008	LIN W	BULL CHEM SOC JAPAN	28	227	1955	YIELDED 20 ENTRIES
55009	TRAP HJL HERMANS JJ	KONINKI NED AKAD WETEN. PROC SER B	58	97	1955	YIELDED 34 ENTRIES
55010	SHIRAI M TAMAMUSHI B	BULL CHEM SOC JAPAN	28	545	1955	NO ENTRIES
55011	GODDARD ED JONES TG	RES CORRESPONDENCE	8	1	1955	NO ENTRIES
55012	ABBOTT AD TARTAR HV	J PHYS CHEM	59	1193	1955	NO ENTRIES
55013	TARTAR HV	J PHYS CHEM	59	1195	1955	NO ENTRIES
55014	PHILLIPS JN MYSELS KJ	J PHYS CHEM	59	325	1955	NO ENTRIES
55015	MUKERJEE P MYSELS KJ	J AM CHEM SOC	77	2937	1955	YIELDED 8 ENTRIES
55016	MYSELS KJ	J COLLOID SCI	10	507	1955	NO ENTRIES
55017	KLEVENS HB	NATURE	176	879	1955	NO ENTRIES
55018	GODDARD ED HIGHAM EH STEWART JC	RES CORRESPONDENCE	7	1	1955	YIELDED 2 ENTRIES
55019	KITAHARA A	BULL CHEM SOC JAPAN	28	234	1955	NO ENTRIES
55020	HSIAO L DUNNING HN	J PHYS CHEM	59	362	1955	NO ENTRIES
55021	TARTAR HV LELONG ALM	J PHYS CHEM	59	1185	1955	YIELDED 11 ENTRIES
55022	FULLER GW	J COLLOID SCI	10	403	1955	NO ENTRIES
55023	MCBAIN MEL	J COLLOID SCI	10	223	1955	NO ENTRIES
55024	PHILLIPS JN	TRANS FARADAY SOC	51	561	1955	NO ENTRIES
55025	ERIKSON JA LINGAFELTER EC	J COLLOID SCI	10	71	1955	NO ENTRIES
55026	GRIESS W	FETTE, SEIFEN, ANSTRICHMI	57	236	1955	NO ENTRIES
55027	GRIESS W	FETTE, SEIFEN, ANSTRICHMI	57	168	1955	NO ENTRIES
55028	GRIESS W	FETTE, SEIFEN, ANSTRICHMI	57	24	1955	YIELDED 15 ENTRIES
56001	KLEVENS HB CARR CW	J PHYS CHEM	60	1245	1956	YIELDED 25 ENTRIES
56002	DORST W PRINS W HERMANS JJ	KONINKI NED AKAD WETEN. PROC SER B	59	190	1956	YIELDED 20 ENTRIES
56003	SHINODA K	J PHYS CHEM	60	1439	1956	YIELDED 5 ENTRIES
56004	PILPEL N	J PHYS CHEM	60	779	1956	NO ENTRIES
56005	LUDLUM DB	J PHYS CHEM	60	1240	1956	YIELDED 6 ENTRIES
56006	EVANS HC	J CHEM SOC	579		1956	YIELDED 32 ENTRIES
56007	PRINS W HERMANS JJ	KONINKI NED AKAD WETEN. PROC SER B	59	162	1956	NO ENTRIES
56008	WEIL JK STIRTON AJ	J PHYS CHEM	60	899	1956	YIELDED 31 ENTRIES
56009	SHIRAI M TAMAMUSHI B	BULL CHEM SOC JAPAN	29	733	1956	NO ENTRIES
56010	KLEVENS HB VERGNOLLE J	MEM SERV CHIM ETAT (PARIS)	41	363	1956	YIELDED 5 ENTRIES
56011	PRINS W HERMANS JJ	KONINKI NED AKAD WETEN. PROC SER B	59	296	1956	YIELDED 13 ENTRIES
56012	HONIG JG SINGLETERRY CR	J PHYS CHEM	60	1108	1956	NO ENTRIES
56013	HONIG JG SINGLETERRY CR	J PHYS CHEM	60	1114	1956	NO ENTRIES
56014	HSIAO L DUNNING HN LORENZ FB	J PHYS CHEM	60	657	1956	YIELDED 25 ENTRIES
56015	KITAHARA A	BULL CHEM SOC JAPAN	29	15	1956	NO ENTRIES
56016	FAVA A EYRING H	J PHYS CHEM	60	890	1956	YIELDED 3 ENTRIES
56017	ZUTRAUEN HA	J CHIM PHYS	53	62	1956	NO ENTRIES
56018	HARVA O	REC TRAV CHIM	75	112	1956	YIELDED 43 ENTRIES
56019	ADDISON CC FURMIDGE CGL	J CHEM SOC	3229		1956	YIELDED 13 ENTRIES
56020	MEGURO K KONDO T YODA O	J CHEM SOC JAPAN, PURE CHEM SEC	77	1236	1956	YIELDED 10 ENTRIES
57001	MATIJEVIC E PETHICA BA	CROAT CHEM ACTA	29	431	1957	NO ENTRIES
57002	GODDARD ED HOEVE CAJ BENSON GC	J PHYS CHEM	61	593	1957	NO ENTRIES
57003	KUSHNER LM HUBBARD WD DOAN AS	J PHYS CHEM	61	371	1957	NO ENTRIES
57004	HOYER HW GREENFIELD A	J PHYS CHEM	61	818	1957	YIELDED 5 ENTRIES
57005	LIN W	J CHINESE CHEM SOC	4	28	1957	YIELDED 2 ENTRIES
57006	KUSHNER LM HUBBARD WD PARKER RA	J RES NAT BUR STD A	59	113	1957	YIELDED 19 ENTRIES
57007	CARRINGTON RAG EVANS HC	J CHEM SOC	1701		1957	NO ENTRIES
57008	LIN W	J CHINESE CHEM SOC	4	21	1957	NO ENTRIES
57009	WILLIAMS EF WOODBERRY N DIXON JK	J COLLOID SCI	12	452	1957	YIELDED 6 ENTRIES
57010	ROSS S HUDSON JB	J COLLOID SCI	12	523	1957	YIELDED 1 ENTRIES
57011	GODDARD ED BENSON GC	CAN J CHEM	35	986	1957	YIELDED 30 ENTRIES
57012	CERSHMAN JW	J PHYS CHEM	61	581	1957	YIELDED 17 ENTRIES
57013	FLOCKHART BD	J COLLOID SCI	12	557	1957	YIELDED 33 ENTRIES
57014	SCHICK MJ FOWKES FM	J PHYS CHEM	61	1062	1957	YIELDED 57 ENTRIES
57015	SHIRAI M TAMAMUSHI B	BULL CHEM SOC JAPAN	30	411	1957	NO ENTRIES
57016	SHIRAI M TAMAMUSHI B	BULL CHEM SOC JAPAN	30	542	1957	YIELDED 1 ENTRIES
57017	KLEVENS HB VERGNOLLE J	PROC INTERN CONGR SURFACE ACTIVITY	2ND	395	1957	YIELDED 14 ENTRIES

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Reference No.	Authors	Journal	Vol.	Pg.	Year	No. of Entries from Reference	
57018	NAKAGAWA T	KURIYAMA K	J CHEM SOC JAPAN, PURE CHEM SEC	78	1568	1957	NO ENTRIES
57019	NAKAGAWA T	INOUE H	J CHEM SOC JAPAN, PURE CHEM SEC	78	636	1957	NO ENTRIES
57020	NAKAGAWA T	KURIYAMA K TORI K	J CHEM SOC JAPAN, PURE CHEM SEC	78	1573	1957	YIELDED 22 ENTRIES
57021	HUTCHINSON E	WINSLOW L	Z PHYSIK CHEM (FRANKFURT)	11	165	1957	YIELDED 8 ENTRIES
57022	LANGE H	KLING W	PROC INTERN CONGR SURFACE ACTIVITY	2ND	295	1957	YIELDED 15 ENTRIES
57023	SASAKI H	SAITO S OKUYAMA H	BULL CHEM SOC JAPAN	30	186	1957	NO ENTRIES
57024	OSIPOW L	SNELL FD HICKSON J	PROC INTERN CONGR SURFACE ACTIVITY	2ND		1957	YIELDED 2 ENTRIES
57025	MIURA M	MATSUMOTO T	J SCI HIROSHIMA UNIV, SER A-II	21	51	1957	YIELDED 5 ENTRIES
57026	KAUFMAN S	SINGLETERRY CR	J COLLOID SCI	12	465	1957	NO ENTRIES
57027	KITAHARA A		J COLLOID SCI	12	342	1957	NO ENTRIES
57028	KITAHARA A		BULL CHEM SOC JAPAN	30	586	1957	NO ENTRIES
57029	KITAHARA A		BULL CHEM SOC JAPAN	31	288	1957	NO ENTRIES
57030	SASAKI H		BULL CHEM SOC JAPAN	30	326	1957	NO ENTRIES
57031	ROSS S	BRAMFITT TH	J PHYS CHEM	61	1261	1957	YIELDED 18 ENTRIES
57032	MEGURO K	KONDO T OHBA N	BULL CHEM SOC JAPAN	30	905	1957	NO ENTRIES
57033	MEGURO K	KONDO T OHBA N	BULL CHEM SOC JAPAN	30	760	1957	NO ENTRIES
		INO T					
58001	MILLER ML	DIXON JK	J COLLOID SCI	13	411	1958	YIELDED 7 ENTRIES
58002	HARRIS JC		SOAP CHEM SPECIALTIES	1958		1958	NO ENTRIES
58003	WEIL JK	BISTLINE RG STIRTON AJ	J PHYS CHEM	62	1083	1958	YIELDED 20 ENTRIES
58004	HARRIS JC		J AM OIL CHEMISTS SOC	35	670	1958	YIELDED 1 ENTRIES
58005	WHITE P	BENSON GC	J COLLOID SCI	13	584	1958	NO ENTRIES
58006	WHITE P	MOULE D	TRANS FARADAY SOC	54	1638	1958	NO ENTRIES
58007	TAMAMUSHI B	SHIRAI M TAMAKI K	BULL CHEM SOC JAPAN	31	467	1958	YIELDED 10 ENTRIES
58008	GINN ME	HARRIS JC	J PHYS CHEM	62	1554	1958	YIELDED 18 ENTRIES
58009	ANACKER EW		J PHYS CHEM	62	41	1958	YIELDED 7 ENTRIES
58010	HARRIS JC		J AM OIL CHEMISTS SOC	35	428	1958	NO ENTRIES
58011	KLEVENS HB		KOLLOID-Z	158	53	1958	YIELDED 20 ENTRIES
58012	HAYDON DA	PHILLIPS JN	TRANS FARADAY SOC	54	698	1958	YIELDED 2 ENTRIES
58013	MUKERJEE P	MYSELS KJ DULIN CI	J PHYS CHEM	62	1390	1958	NO ENTRIES
58014	MUKERJEE P		J PHYS CHEM	62	1397	1958	NO ENTRIES
58015	MUKERJEE P	MYSELS KJ	J PHYS CHEM	62	1400	1958	NO ENTRIES
58016	MUKERJEE P		J PHYS CHEM	62	1404	1958	NO ENTRIES
58017	NAKAGAWA T		SHINOGI KENKYUSHO NEMPO	8	805	1958	YIELDED 9 ENTRIES
58018	NAKAGAWA T OYAMA T	INOUE H KURIYAMA K	J CHEM SOC JAPAN, PURE CHEM SEC	79	348	1958	NO ENTRIES
58019	NAKAGAWA T OYAMA T	INOUE H KURIYAMA K	J CHEM SOC JAPAN, PURE CHEM SEC	79	345	1958	NO ENTRIES
58020	MATLJEVIC E	PETHICA BA	TRANS FARADAY SOC	54	587	1958	YIELDED 9 ENTRIES
58021	KASHIWAGI KM		J COLLOID SCI	13	618	1958	YIELDED 2 ENTRIES
58022	KITAHARA A		BULL CHEM SOC JAPAN	31	653	1958	NO ENTRIES
58023	MIURA M	ARISHI S	J SCI HIROSHIMA UNIV, SER A-II	22	57	1958	YIELDED 9 ENTRIES
58024	BASCOM WD	SINGLETERRY CR	J COLLOID SCI	13	569	1958	NO ENTRIES
58025	KAUFMAN S	SINGLETERRY CR	J PHYS CHEM	62	1257	1958	NO ENTRIES
58026	TYUZYO K		BULL CHEM SOC JAPAN	31	117	1958	NO ENTRIES
58027	NASH T		CHEM IND (LONDON)		590	1958	NO ENTRIES
58028	NAKAGAWA T KURIYAMA K	INOUE H KAZUO T	J CHEM SOC JAPAN, PURE CHEM SEC	79	48	1958	YIELDED 8 ENTRIES
58029	SAWYER WM	FOWKES FM	J PHYS CHEM	62	159	1958	NO ENTRIES
58030	MARKAN AL	KRIJENTSOV WI	ZAVODSKAYA LAB	24	158	1958	NO ENTRIES
58031	FEW A	GILBY A OTTEWILL RH	J CHEM SOC		1712	1958	YIELDED 1 ENTRIES
59001	HARROLD SP		J PHYS CHEM	63	317	1959	YIELDED 3 ENTRIES
59002	MYSELS KJ	PRINCEN LH	J PHYS CHEM	63	1696	1959	YIELDED 4 ENTRIES
59003	PRINCEN LH	MYSELS KJ	J PHYS CHEM	63	1781	1959	NO ENTRIES
59004	WEIL JK MAURER EW	STIRTON AJ BISTLINE RG	J AM OIL CHEMISTS SOC	36	241	1959	YIELDED 19 ENTRIES
59005	BECHER P	CLIFTON NK	J COLLOID SCI	14	519	1959	YIELDED 1 ENTRIES
59006	BECHER P		J PHYS CHEM	63	1675	1959	YIELDED 22 ENTRIES
59007	MOULE D	BENSON GC	CAN J CHEM	37	2083	1959	YIELDED 4 ENTRIES
59008	MOULE D	WHITE P BENSON GC	CAN J CHEM	37	2086	1959	YIELDED 2 ENTRIES
59009	GINN ME	KINNEY FB HARRIS JC	J AM OIL CHEMISTS SOC	36	332	1959	YIELDED 23 ENTRIES
59010	TARTAR HV		J COLLOID SCI	14	115	1959	YIELDED 2 ENTRIES
59011	WESTWELL AE	ANACKER EW	J PHYS CHEM	63	1022	1959	NO ENTRIES
59012	WHITE P	BENSON GC	TRANS FARADAY SOC	55	1025	1959	YIELDED 9 ENTRIES
59013	SHINODA K	YAMANAKA T	J PHYS CHEM	63	648	1959	YIELDED 3 ENTRIES
59014	ASCOLI F	BOTRE C CRESCENZI V	NATURE	184	1482	1959	NO ENTRIES
59015	MELE A	CRESCENZI VL LIQUORI AM	TRANS FARADAY SOC	55	1975	1959	YIELDED 2 ENTRIES
59016	BOTRE C	CRESCENZI VL MELE A	J PHYS CHEM	63	650	1959	YIELDED 6 ENTRIES
59017	KASHIWAGI M	EZAKI H	BULL CHEM SOC JAPAN	32	624	1959	YIELDED 4 ENTRIES
59018	HUTCHINSON E		Z PHYSIK CHEM (FRANKFURT)	21	38	1959	YIELDED 6 ENTRIES
59019	FUERSTENAU DW	MODI HJ	J ELECTROCHEM SOC	106	336	1959	NO ENTRIES
59020	ROSS S	OLIVIER JP	J PHYS CHEM	63	1671	1959	YIELDED 7 ENTRIES
59021	BASCOM WD	KAUFMAN S	WORLD PETROL CONGR, PROC	V 6	18	1959	NO ENTRIES
59022	KOLBEL H	KUHN P	ANGEW CHEM	71	211	1959	NO ENTRIES
59023	HOLLAHAN JR	CADY GH	J PHYS CHEM	63	757	1959	YIELDED 1 ENTRIES
59024	MEGURO K	KONDO T	J CHEM SOC JAPAN, PURE CHEM SEC	80	818	1959	YIELDED 11 ENTRIES
59025	MEGURO K	KONDO T	J CHEM SOC JAPAN, PURE CHEM SEC	80	821	1959	NO ENTRIES
59026	MEGURO K	KONDO T	J CHEM SOC JAPAN, PURE CHEM SEC	80	823	1959	YIELDED 9 ENTRIES
60001	VELS A	HOERR CW	J COLLOID SCI	15	427	1960	YIELDED 2 ENTRIES

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Reference No.	Authors	Journal	Vol.	Pg.	Year	No. of Entries from Reference		
60002	WHITE P	BENSON GC	J PHYS CHEM	64	599	1960	YIELDED 4 ENTRIES	
60003	BECHER P		J PHYS CHEM	64	1221	1960	NO ENTRIES	
60004	HARROLD SP		J COLLOID SCI	15	280	1960	YIELDED 2 ENTRIES	
60005	CARTAN F	ANACKER EW	J CHEM EDUC	37	36	1960	YIELDED 2 ENTRIES	
60006	NAKAGAWA T	KURIYAMA K	J COLLOID SCI	15	268	1960	YIELDED 20 ENTRIES	
60007	NAKAGAWA T		PROC INTERN CONGR SURFACE ACTIVITY	3RD	636	1960	NO ENTRIES	
60008	WEIL JK	STIRTON AJ	BISTLINE RG	J AM OIL CHEMISTS SOC	37	679	1960	YIELDED 9 ENTRIES
	AULT WC							
60009	NAKAGAWA T	TORI K	KOLLOID-Z	168	132	1960	NO ENTRIES	
60010	GINN ME	KINNEY FB	HARRIS JC	J AM OIL CHEMISTS SOC	37	183	1960	YIELDED 78 ENTRIES
60011	HAYDON DA	TAYLOR FH	PHIL TRANS ROY SOC LONDON, SER A	252	225	1960	YIELDED 8 ENTRIES	
60012	LANGHE H		PROC INTERN CONGR SURFACE ACTIVITY	3RD	279	1960	YIELDED 7 ENTRIES	
60013	V VOORST VA.F		PROC INTERN CONGR SURFACE ACTIVITY	3RD	276	1960	NO ENTRIES	
60014	V VOORST VA.F		TRANS FARADAY SOC	56	1078	1960	NO ENTRIES	
60015	FARREIRA HC		ANALIS ACAD BRASIL CIENC	32	207	1960	YIELDED 4 ENTRIES	
60016	KOLBEL H	KLAMANN D	KURZENDORFER P	PROC INTERN CONGR SURFACE ACTIVITY	3RD	1	1960	NO ENTRIES
60017	KOLBEL H	KLAMANN D	WAGNER E	PROC INTERN CONGR SURFACE ACTIVITY	3RD	27	1960	YIELDED 3 ENTRIES
60018	GOTTE E		PROC INTERN CONGR SURFACE ACTIVITY	3RD	45	1960	YIELDED 20 ENTRIES	
60019	DERVICHIAN DG		PROC INTERN CONGR SURFACE ACTIVITY	3RD	182	1960	NO ENTRIES	
60020	JAMES JW	PETHICA BA	PROC INTERN CONGR SURFACE ACTIVITY	3RD	227	1960	YIELDED 1 ENTRIES	
60021	STANLEY JS	RADLEY JA	PROC INTERN CONGR SURFACE ACTIVITY	3RD	246	1960	YIELDED 3 ENTRIES	
60022	V VOORST VA.F	V DEN TEMPEL M	PROC INTERN CONGR SURFACE ACTIVITY	3RD	248	1960	NO ENTRIES	
60023	LUCK W		PROC INTERN CONGR SURFACE ACTIVITY	3RD	264	1960	NO ENTRIES	
60024	BOTRE C	CRESCENZI V	LIQUORI AM	PROC INTERN CONGR SURFACE ACTIVITY	3RD	302	1960	YIELDED 3 ENTRIES
60025	V VOORST VA.F		TRANS FARADAY SOC	56	1067	1960	YIELDED 9 ENTRIES	
60026	HUCC WB	NEWTON JM	J PHARM PHARMACOL	12	447	1960	YIELDED 2 ENTRIES	
60027	ELWORTHY PH		J PHARM PHARMACOL	012	293	1960	YIELDED 9 ENTRIES	
60028	BISWAS AK	MUKHERJI BK	J PHYS CHEM	64	1	1960	YIELDED 11 ENTRIES	
60029	MIYAMOTO S		BULL CHEM SOC JAPAN	33	375	1960	YIELDED 25 ENTRIES	
60030	BESPYATOV MP	LESHCHENKO ZY	MASLOB ZHIR PROM	26	24	1960	NO ENTRIES	
60031	BESPYATOV MP	OLEINIKOVA ZV	MASLOB ZHIR PROM	26	26	1960	NO ENTRIES	
60032	DEMCHENKO PA	DUMANSKI AV	DOKLADY AKAD NAUK SSSR	131	120	1960	YIELDED 2 ENTRIES	
60033	TAUEMAN AB	KONSTANTIN. VV	KRYUKOVA AS	KHIM TEKHNOL	5	61	1960	YIELDED 28 ENTRIES
60034	DEMCHENKO PA		MASLOB ZHIR PROM	26	26	1960	YIELDED 4 ENTRIES	
60035	MIYAMOTO S		BULL CHEM SOC JAPAN	33	371	1960	NO ENTRIES	
61001	HOYER HW	MARMO A	ZOELLNER M	J PHYS CHEM	65	1804	1961	YIELDED 2 ENTRIES
61002	HOYER HW	MARMO A	J PHYS CHEM	65	1807	1961	YIELDED 8 ENTRIES	
61003	BECHER P		J COLLOID SCI	16	49	1961	YIELDED 7 ENTRIES	
61004	CORKILL JM	GOODMAN JF	OTTEWILL RH	TRANS FARADAY SOC	57	1627	1961	YIELDED 6 ENTRIES
61005	MYSELS KJ	KAPAUAN P	J COLLOID SCI	16	481	1961	YIELDED 5 ENTRIES	
61006	HARRIS JC	SATANEK J	J AM OIL CHEMISTS SOC	38	169	1961	NO ENTRIES	
61007	FLOCKHART BD		J COLLOID SCI	16	484	1961	YIELDED 83 ENTRIES	
61008	SHINODA K	YAMAGUCHI T	HORI R	BULL CHEM SOC JAPAN	34	237	1961	YIELDED 11 ENTRIES
61009	MARUTA I	TOKIWA F	J CHEM SOC JAPAN, PURE CHEM SEC	82	1657	1961	NO ENTRIES	
61010	MARUTA I	SAKAI T	TOKIWA F	J CHEM SOC JAPAN, PURE CHEM SEC	82	1512	1961	NO ENTRIES
61011	MARUTA I	TOKIWA F	J CHEM SOC JAPAN, PURE CHEM SEC	82	1660	1961	NO ENTRIES	
61012	ISEMURA T	IKEDA S	TOKIWA F	BULL CHEM SOC JAPAN	34	1236	1961	NO ENTRIES
	NOGUCHI J							
61013	PILPEL N		TRANS FARADAY SOC	57	1426	1961	NO ENTRIES	
61014	GINN ME	HARRIS JC	J AM OIL CHEMISTS SOC	38	605	1961	YIELDED 16 ENTRIES	
61015	GINN ME	KINNEY FB	HARRIS JC	J AM OIL CHEMISTS SOC	38	138	1961	YIELDED 21 ENTRIES
61016	BRUNING W	HOLTZER A	J AM CHEM SOC	83	4865	1961	YIELDED 4 ENTRIES	
61017	MYSELS KJ	OTTER RJ	J COLLOID SCI	16	462	1961	YIELDED 13 ENTRIES	
61018	MYSELS KJ	OTTER RJ	J COLLOID SCI	16	474	1961	NO ENTRIES	
61019	GINN ME	BROWN EL	HARRIS JC	J AM OIL CHEMISTS SOC	38	361	1961	NO ENTRIES
61022	NAKAGAWA T		CHEM IND (LONDON)	14	1135	1961	NO ENTRIES	
61023	ASCOLI F	BOTRE C	LIQUORI AM	J MOL BIOL	3	202	1961	NO ENTRIES
61024	ASCOLI F	BOTRE C	LIQUORI AM	J PHYS CHEM	65	1991	1961	NO ENTRIES
61025	TYUZYUO K		KOLLOID-Z	175	40	1961	YIELDED 2 ENTRIES	
61026	V VOORST VA.F		TRANS FARADAY SOC	57	110	1961	YIELDED 5 ENTRIES	
61027	COHEN I	VASSILIADES T	J PHYS CHEM	65	1781	1961	YIELDED 2 ENTRIES	
61028	COHEN I	VASSILIADES T	J PHYS CHEM	65	1774	1961	NO ENTRIES	
61029	ANGELESCU E.	NICOLESCU A	BARBULESCU EM	REV CHIM AC.REP POP.ROUM.	6	309	1961	YIELDED 6 ENTRIES
61030	DEMCHENKO PA		KOLLOID ZH	23	528	1961	YIELDED 4 ENTRIES	
61031	DEMCHENKO PA		DOPOV. AKAD NAUK UKR RSR	27	928	1961	YIELDED 19 ENTRIES	
61032	DEMCHENKO PA		UKR KHIM ZH	27	322	1961	NO ENTRIES	
61033	DEMCHENKO PA		MASLOB ZHIR PROM	27	19	1961	NO ENTRIES	
62001	BECHER P		J PHYS CHEM	66	374	1962	YIELDED 6 ENTRIES	
62002	BECHER P		J COLLOID SCI	17	325	1962	YIELDED 27 ENTRIES	
62003	DEBYE P	COLL H	J COLLOID SCI	17	220	1962	NO ENTRIES	
62004	HAYDON DA	TAYLOR FH	TRANS FARADAY SOC	58	1233	1962	YIELDED 16 ENTRIES	
62005	HERRMANN KW		J PHYS CHEM	66	295	1962	YIELDED 12 ENTRIES	
62006	CORKILL JM	GOODMAN JF	TRANS FARADAY SOC	58	206	1962	YIELDED 12 ENTRIES	
62007	MARUTA I	TOKIWA F	J CHEM SOC JAPAN, PURE CHEM SEC	83	732	1962	NO ENTRIES	
62008	STIRTON AJ	BISTLINE RG	WEIL JK	J AM OIL CHEMISTS SOC	39	55	1962	YIELDED 13 ENTRIES
	AULT WC							
62009	KURIYAMA K		KOLLOID-Z	180	55	1962	YIELDED 49 ENTRIES	
62010	KURIYAMA K	INOUE H	NAKAGAWA T	KOLLOID-Z	183	68	1962	YIELDED 22 ENTRIES
62011	KURIYAMA K		KOLLOID-Z	181	144	1962	YIELDED 20 ENTRIES	
62012	TOKIWA F	ISEMURA T	BULL CHEM SOC JAPAN	35	1737	1962	NO ENTRIES	

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Reference No.	Authors	Journal	Vol.	Pg.	Year	No. of Entries from Reference	
62013	BALMBRA RR GOODMAN JF	CLUNIE JS CORKILL JM	TRANS FARADAY SOC	58	1661	1962	NO ENTRIES
62014	TARTAR HV		J COLLOID SCI	17	243	1962	NO ENTRIES
62015	MULLEY BA	METCALF AD	J COLLOID SCI	17	523	1962	YIELDED 4 ENTRIES
62016	HUTCHINSON E	SHAFFER FM	Z PHYSIK CHEM (FRANKFURT)	31	397	1962	NO ENTRIES
62017	BOTRE C	SCIBONA G	ANN CHIM (ROME)	52	1199	1962	NO ENTRIES
62018	LANGE H		FETTE, SEIFEN, ANSTRICHMI	64	457	1962	NO ENTRIES
62019	SCHICK MJ		J COLLOID SCI	17	801	1962	YIELDED 71 ENTRIES
62020	SCHICK MJ	ATLAS SM	J PHYS CHEM	66	1326	1962	YIELDED 14 ENTRIES
62021	LIQUORI AM	ASCOLI F	BOTRE C	22	12/1	1962	NO ENTRIES
62022	ISEMURA T	TOKIWA F	IKEDA S	35	240	1962	NO ENTRIES
62023	WACHS W	HAYANO S	KOLLOID-Z	181	139	1962	YIELDED 6 ENTRIES
62024	KITAHARA A	KOBAYASHI T	TACHIBANA T	66	363	1962	NO ENTRIES
62025	KAUFMAN S		J COLLOID SCI	17	231	1962	NO ENTRIES
62026	MARUTA I		J CHEM SOC JAPAN, PURE CHEM SEC	83	786	1962	NO ENTRIES
62027	ELWORTHY PH	MACFARLANE CB	J PHARM PHARMACOL	14	100	1962	YIELDED 6 ENTRIES
62028	MARUTA I		J CHEM SOC JAPAN, PURE CHEM SEC	83	395	1962	NO ENTRIES
62029	MARUTA I		J CHEM SOC JAPAN, PURE CHEM SEC	83	782	1962	NO ENTRIES
62030	MARUTA I		J CHEM SOC JAPAN, PURE CHEM SEC	83	788	1962	NO ENTRIES
62031	MARUTA I		J CHEM SOC JAPAN, PURE CHEM SEC	83	858	1962	NO ENTRIES
62032	MARUTA I		J CHEM SOC JAPAN, PURE CHEM SEC	83	861	1962	NO ENTRIES
62033	MATUURA R	SATAKE I	IWAMATSU I	35	1050	1962	NO ENTRIES
62034	CAMPBELL AN	KARTZMARK EM	LAKSHMINAR. GR	40	839	1962	NO ENTRIES
62035	TUDDENHAM RF	ALEXANDER AE	CAN J CHEM	66	1839	1962	YIELDED 15 ENTRIES
62036	HAMANN SD		J PHYS CHEM	66	1359	1962	YIELDED 5 ENTRIES
62037	DEMCHENKO PA		UKR KHIM ZH	28	46	1962	YIELDED 6 ENTRIES
62038	DEMCHENKO PA	ZAKHAROVA NN	DEMCHENKO LG	28	611	1962	YIELDED 5 ENTRIES
62039	BESPYATOV MP	LESHCHENKO ZY	MASLOB ZHIR PROM	28	20	1962	NO ENTRIES
62040	KURZ J L		J PHYS CHEM	66	2239	1962	YIELDED 4 ENTRIES
63001	SHEDLOVSKY S	JAKOB CW	EPSTEIN MB	67	2075	1963	YIELDED 12 ENTRIES
63002	PILPEL N		CHEM REV	63	221	1963	NO ENTRIES
63003	TOKIWA F		BULL CHEM SOC JAPAN	36	222	1963	NO ENTRIES
63004	TOKIWA F		BULL CHEM SOC JAPAN	36	1589	1963	NO ENTRIES
63005	ROBINS DC	THOMAS IL		15	522	1963	NO ENTRIES
63006	KAKIUCHI K	HATTORI K	ISEMURA T	36	1250	1963	NO ENTRIES
63007	TOKIWA F		BULL CHEM SOC JAPAN	36	281	1963	NO ENTRIES
63008	TORI K	NAKAGAWA T		189	50	1963	YIELDED 49 ENTRIES
63009	TORI K	NAKAGAWA T		188	47	1963	YIELDED 6 ENTRIES
63010	TORI K	NAKAGAWA T		187	44	1963	YIELDED 3 ENTRIES
63012	TORI K	KURIYAMA K	NAKAGAWA T	191	48	1963	YIELDED 4 ENTRIES
63013	WEIL JK	SMITH FD	STIRTON AJ	40	538	1963	YIELDED 43 ENTRIES
63014	BISTLINE RG CORKILL JM TATE JR	GOODMAN JF OGDEN CF	PROC ROY SOC	273	84	1963	YIELDED 2 ENTRIES
63015	BECKETT AH	WOODWARD RJ		15	422	1963	YIELDED 25 ENTRIES
63016	ANACKER EW	GHOSE HM		67	1713	1963	YIELDED 7 ENTRIES
63017	CROOK EH	FORDYCE DB	TREBBI GF	67	1987	1963	YIELDED 54 ENTRIES
63018	CORKILL JM	HERRMANN KW		67	935	1963	NO ENTRIES
63019	GRABENSTETT R.J	CORKILL JM		18	401	1963	NO ENTRIES
63020	BECHER P		J COLLOID SCI	18	196	1963	YIELDED 5 ENTRIES
63021	DONBROW M	JAN ZA		15	825	1963	YIELDED 6 ENTRIES
63022	BECHER P		J COLLOID SCI	18	665	1963	NO ENTRIES
63023	TOKIWA F		BULL CHEM SOC JAPAN	36	1585	1963	NO ENTRIES
63024	BOTRE C	RICCIERI FM		52	1011	1963	NO ENTRIES
63025	ASCOLI F	BOTRE C		1	353	1963	NO ENTRIES
63026	SCHICK MJ		BIOPOLYMERS	67	1796	1963	YIELDED 59 ENTRIES
63027	SCHICK MJ		J AM OIL CHEMISTS SOC	40	680	1963	NO ENTRIES
63028	SCHICK MJ		J COLLOID SCI	18	378	1963	NO ENTRIES
63029	HUTCHINSON E	TOKIWA F		40	472	1963	NO ENTRIES
63030	PACKTER A	DONBROW M		15	317	1963	YIELDED 12 ENTRIES
63031	ROBINS DC	THOMAS IL		15	157	1963	NO ENTRIES
63032	MUKERJEE P	RAY A		67	190	1963	YIELDED 18 ENTRIES
63033	EKWALL P	EIKREM H	MANDELL L	17	111	1963	NO ENTRIES
63034	SATAKE I	IWAMATSU I	HOSOKAWA S	36	204	1963	YIELDED 14 ENTRIES
63035	MATUURA R		BULL CHEM SOC JAPAN	36	813	1963	NO ENTRIES
63036	SATAKE I	MATUURA R		18	705	1963	NO ENTRIES
63037	SHINODA K	NAKAYAMA H		11	1202	1963	YIELDED 3 ENTRIES
63038	KATO Y		CHEM PHARM BULL (TOKYO)	29	19	1963	NO ENTRIES
63039	BESPYATOV MP	LESHCHENKO ZY		29	19	1963	NO ENTRIES
63039	LESYUIS AA	KARNAUKH AM		29	22	1963	NO ENTRIES
64001	VENABLE RL	NAUMAN RV		68	3498	1964	YIELDED 9 ENTRIES
64002	MAURER EW	STIRTON AJ	AULT WC	41	205	1964	YIELDED 30 ENTRIES
64003	WEIL JK						
64003	CORKILL JM	GOODMAN JF	HARROLD SP	60	202	1964	YIELDED 25 ENTRIES
64004	SCHOTT H			68	3612	1964	YIELDED 2 ENTRIES
64005	BECHER P		PROC INTERN CONGR SURFACE ACTIVITY	4TH		1964	NO ENTRIES
64006	HERRMANN KW		J PHYS CHEM	68	1540	1964	YIELDED 4 ENTRIES
64007	HOYER HW	DOERR IL		68	3494	1964	YIELDED 1 ENTRIES
64008	BECHER P	DEL VECCHIO AJ		68	3511	1964	NO ENTRIES
64009	CARLESS JE	CHALLIS RA	MULLEY BA	19	201	1964	YIELDED 16 ENTRIES

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Reference No.	Authors	Journal	Vol.	Pg.	Year	No. of Entries from Reference
64010	MANKOWICH AM	J AM OIL CHEMISTS SOC	41	449	1964	YIELDED 6 ENTRIES
64011	SHINODA K	J PHYS CHEM	68	1568	1964	YIELDED 24 ENTRIES
64012	CORKILL JM	GOODMAN JF TATE JR	60	986	1964	YIELDED 1 ENTRIES
64013	CROOK EH	FORDYCE DB TREBBI GF	41	231	1964	NO ENTRIES
64014	CROOK EH	TREBBI GF FORDYCE DB	68	3592	1964	YIELDED 80 ENTRIES
64015	NAKAGAWA T	TORI K	194	143	1964	NO ENTRIES
64016	BENJAMIN L	J PHYS CHEM	68	3575	1964	YIELDED 5 ENTRIES
64017	ANACKER EW	RUSH RM JOHNSON JS	68	81	1964	YIELDED 4 ENTRIES
64018	ANACKER EW	WESTWELL AE	68	3490	1964	NO ENTRIES
64019	INOUE H	KOLLOID-Z	196	1	1964	NO ENTRIES
64020	SCHICK MJ	J PHYS CHEM	68	3585	1964	YIELDED 108 ENTRIES
64021	NAKAGAWA T	INOUE H	195	93	1964	NO ENTRIES
64022	PILPEL N	NATURE	204	378	1964	NO ENTRIES
64023	BALMBRA RR GOODMAN JF	CLUNIE JS CORKILL JM	60	979	1964	YIELDED 8 ENTRIES
64024	TOKIWA F	BULL CHEM SOC JAPAN	37	1837	1964	YIELDED 12 ENTRIES
64025	NAKAGAKI M	NINOMIYA Y	37	817	1964	YIELDED 1 ENTRIES
64026	CAMPBELL AN	GIESKES JMTM	43	1004	1964	NO ENTRIES
64027	CORKILL JM	GOODMAN JF TATE JR	60	996	1964	YIELDED 2 ENTRIES
64028	BERRY RWH	BROCKLEHURST P		2264	1964	NO ENTRIES
64030	HARTLEY GS	CHEM IND (LONDON)	24	1012	1964	NO ENTRIES
64031	BOTRE C	SOLINAS M	88	415	1964	NO ENTRIES
64032	BOTRE C	DE MARTIIS F SOLINAS M	68	3624	1964	YIELDED 1 ENTRIES
64033	LIQUORI AM	BOTRE C	6	71	1964	NO ENTRIES
64034	NAKAGAKI M	KAWAMURA S	84	246	1964	YIELDED 5 ENTRIES
64035	SOMASUNDARAN P	HEALY TW FUERSTENAU DW	68	3562	1964	YIELDED 5 ENTRIES
64036	MIURA M	FUJITA H WATARI Y	28	41	1964	NO ENTRIES
64037	HUTCHINSON E	SHEAFFER VE TOKIWA F	68	2818	1964	YIELDED 7 ENTRIES
64038	FUERSTENAU DW	HEALY TW SOMASUNDARAN P		321	1964	NO ENTRIES
64039	LANGE H	PROC INTERN CONGR SURFACE ACTIVITY	4TH	1	1964	NO ENTRIES
64040	NAKAGAWA T	INOUE H	4TH	N	1964	NO ENTRIES
64041	KAUFMAN S	J PHYS CHEM	68	2814	1964	NO ENTRIES
64042	LITTLE RC	SINGLETERRY CR	68	3453	1964	NO ENTRIES
64043	WASIK SP	HUBBARD WD	68	359	1964	YIELDED 13 ENTRIES
64044	LITTLE RC	SINGLETERRY CR	68	2709	1964	NO ENTRIES
64045	HUISMAN HF	KONINKI NED AKAD WETEN. PROC SER B	67	367	1964	NO ENTRIES
64046	HUISMAN HF	KONINKI NED AKAD WETEN. PROC SER B	67	376	1964	NO ENTRIES
64047	HUISMAN HF	KONINKI NED AKAD WETEN. PROC SER B	67	388	1964	YIELDED 59 ENTRIES
64048	HUISMAN HF	KONINKI NED AKAD WETEN. PROC SER B	67	407	1964	NO ENTRIES
64049	ELWORTHY PH	FLORENCE AT	195	23	1964	YIELDED 20 ENTRIES
64050	ADDERSON JE	TAYLOR H	19	495	1964	YIELDED 14 ENTRIES
64051	MARKINA ZH	TSIKURINA NN KOSTOVA NZ	26	76	1964	YIELDED 31 ENTRIES
65001	CROOK EH	FORDYCE DB TREBBI GF	20	191	1965	NO ENTRIES
65002	KONNO K	KITAHARA A	68	2058	1965	NO ENTRIES
65003	MOLYNEUX P	RHODES CT SWARBICK J	61	1043	1965	YIELDED 13 ENTRIES
65004	CORKILL JM	GOODMAN JF WALKER T	61	589	1965	NO ENTRIES
65005	CORKILL JM	GOODMAN JF OGDEN CP	61	583	1965	YIELDED 3 ENTRIES
65006	EMERSON MF	HOLTZER A	69	3718	1965	NO ENTRIES
65007	BUJAKE JE	GODDARD ED	61	190	1965	YIELDED 2 ENTRIES
65010	BOTRE C	BRUFANI M	54	919	1965	NO ENTRIES
65011	SCHICK MJ	GILBERT AH	20	464	1965	YIELDED 24 ENTRIES
65012	STEIGMAN J	COHEN I SPINGOLA F	20	732	1965	YIELDED 9 ENTRIES
65013	BECHER P		20	728	1965	YIELDED 9 ENTRIES
65014	TOKIWA F	BULL CHEM SOC JAPAN	38	751	1965	NO ENTRIES
65015	V VOORST VA.F				1965	NO ENTRIES
65016	ELWORTHY PH	MACFARLANE CB	17	65	1965	NO ENTRIES
65017	ARAI H	SHIGEHRO F MARUTA I	68	1090	1965	NO ENTRIES
65018	MYSELS EK	MYSELS KJ	20	315	1965	YIELDED 6 ENTRIES
65019	ABU-HAMDIYY M	MYSELS KJ	69	1466	1965	YIELDED 6 ENTRIES
65020	SHIRAHAMA K	MATUURA R	38	373	1965	YIELDED 34 ENTRIES
65021	MALIK WU	VERMA SP	3	441	1965	NO ENTRIES
65022	SHIGEHARA K		38	1700	1965	YIELDED 3 ENTRIES
65023	EKWALL P	HOLMBERG P	19	573	1965	NO ENTRIES
65024	CAMPBELL AN	LAKSHMINAR. GR	43	1729	1965	YIELDED 16 ENTRIES
65025	STEIGMAN J	SHANE N	69	968	1965	YIELDED 13 ENTRIES
65026	WEINER ND	ZOGRAFI G	54	436	1965	YIELDED 6 ENTRIES
65027	BJAASTAD SG	HALL NA THAKKAR AL	54	1529	1965	NO ENTRIES
65028	KUPPUSAMI J	SURYANARAY.CV	208	780	1965	YIELDED 4 ENTRIES
65029	MIJNLIEFF PF	DITMARSCH R	208	889	1965	NO ENTRIES
65030	TONG LKJ	REEVES RL ANDRUS RW	69	2357	1965	YIELDED 3 ENTRIES
65031	CZERNIAWSKI M		39	1059	1965	YIELDED 4 ENTRIES
65032	CZERNIAWSKI M		39	1469	1965	NO ENTRIES
65033	INOUE H	NAKAGAWA T	70	1108	1965	NO ENTRIES
65034	LELONG ALM	CONSOL L	53	39	1965	NO ENTRIES
65035	LELONG ALM	NATALE I	53	11	1965	NO ENTRIES
65036	OSUCI J	SATO M	35	32	1965	YIELDED 19 ENTRIES
65037	CZERNIAWSKI M		39	1275	1965	YIELDED 4 ENTRIES
66001	SCHICK MJ	MANNING DJ	43	133	1966	YIELDED 67 ENTRIES
66002	MUKERJEE P	KAPAUAN P MEYER HG	70	783	1966	YIELDED 4 ENTRIES
66003	WEIL JK	STIRTON AJ BARR EA	43	157	1966	YIELDED 5 ENTRIES

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Reference No.	Authors	Journal	Vol.	Pg.	Year	No. of Entries from Reference	
66004	MUKERJEE P	RAY A	J PHYS CHEM	70	2138	1966	NO ENTRIES
66005	MUKERJEE P	RAY A	J PHYS CHEM	70	2144	1966	NO ENTRIES
66006	MUKERJEE P	RAY A	J PHYS CHEM	70	2150	1966	YIELDED 10 ENTRIES
66007	ELWORTHY PH	MYSELS KJ	J COLLOID SCI	21	331	1966	YIELDED 3 ENTRIES
66008	ELWORTHY PH	FLORENCE AT	KOLLOID-Z Z POLYMERE	208	157	1966	NO ENTRIES
66009	SHIGEHARA K		BULL CHEM SOC JAPAN	39	2643	1966	NO ENTRIES
66010	SHIGEHARA K		BULL CHEM SOC JAPAN	39	2332	1966	YIELDED 3 ENTRIES
66011	CARDWELL PH		J COLLOID INTERFACE SCI	22	430	1966	YIELDED 6 ENTRIES
66012	BENJAMIN L		J COLLOID INTERFACE SCI	22	386	1966	YIELDED 19 ENTRIES
66013	HERRMANN WK		J COLLOID INTERFACE SCI	22	352	1966	YIELDED 12 ENTRIES
66014	CORKILL JM	GOODMAN JF HARROLD SP	TRANS FARADAY SOC	62	994	1966	YIELDED 10 ENTRIES
	TATE JR						
66015	CORKILL JM	GOODMAN JF ROBSON P	TRANS FARADAY SOC	62	987	1966	YIELDED 12 ENTRIES
	TATE JR						
66016	CORKILL JM	GOODMAN JF TATE JR	TRANS FARADAY SOC	62	979	1966	NO ENTRIES
66017	PATEL RM	ZOGRAFI G	J PHARM SCI	55	1345	1966	NO ENTRIES
66018	WAN LSC		J PHARM SCI	55	1395	1966	YIELDED 5 ENTRIES
66019	DONBROW M	JACOBS J	J PHARM PHARMACOL	18	92S	1966	YIELDED 2 ENTRIES
66020	FLORENCE AT		J PHARM PHARMACOL	18	384	1966	YIELDED 1 ENTRIES
66021	MANKOWICH AM		J AM OIL CHEMISTS SOC	43	615	1966	YIELDED 11 ENTRIES
66022	KOMOR JA	BEISWANGE. JPG	J AM OIL CHEMISTS SOC	43	435	1966	YIELDED 12 ENTRIES
66023	MALIK WU	CHAND P	J AM OIL CHEMISTS SOC	43	446	1966	YIELDED 16 ENTRIES
66024	LOVELL VM	SEBBA P	ANAL CHEM	38	1920	1966	NO ENTRIES
66025	SCHICK MJ		J AM OIL CHEMISTS SOC	43	681	1966	YIELDED 45 ENTRIES
66026	NAKAYAMA H	SHINODA K HUTCHINSON E	J PHYS CHEM	70	3502	1966	NO ENTRIES
66027	TOKIWA F	OHKI K	J PHYS CHEM	70	3437	1966	YIELDED 6 ENTRIES
66028	FORD WPJ	OTTEWILL RH PARREIRA HC	J COLLOID INTERFACE SCI	21	522	1966	YIELDED 21 ENTRIES
66029	CZERNIAWSKI M		ROCZN CHEM	40	1265	1966	NO ENTRIES
66030	CZERNIAWSKI M		ROCZN CHEM	40	1935	1966	YIELDED 4 ENTRIES
66031	MATHAI K	OTTEWILL RH	TRANS FARADAY SOC	62	759	1966	NO ENTRIES
66032	IDA O	MEGURO K KONDO A	J CHEM SOC JAPAN, PURE CHEM SEC	77	905	1966	NO ENTRIES
66033	OSUGI J	SATO M IFUKU N	J CHEM SOC JAPAN, PURE CHEM SEC	87	329	1966	NO ENTRIES
66034	PYTASZ G	SZEGLOWSKI Z	ZESZYTY NAUK UNIW JAGIEL	211	199	1966	NO ENTRIES
66035	PYTASZ G	SZEGLOWSKI Z	ZESZYTY NAUK UNIW JAGIEL	211	209	1966	NO ENTRIES
66036	SCHOTT H		J PHYS CHEM	70	2966	1966	YIELDED 8 ENTRIES
66037	MATHAI K	OTTEWILL R	TRANS FARADAY SOC	62	750	1966	YIELDED 1 ENTRIES
66038	BENTON D	SPARKS B	TRANS FARADAY SOC	62	3244	1966	YIELDED 6 ENTRIES
66039	HERRMANN WK	BRUSHMILLER J COURCHENE W	J PHYS CHEM	70	2909	1966	YIELDED 7 ENTRIES
66040	BENJAMIN L		J PHYS CHEM	70	3790	1966	YIELDED 11 ENTRIES

Abbreviations: Units of Measure

Code	Description
A	MOLES/100 MOLES OF SOLVENT (INCLUDING ADDITIVES)
B	VOLUME % OF SOLVENT
C	MOLES/100 MOLES OF SURFACTANT MIXTURE
D	W/V % (GRAMS/100 MILLILITERS OF SOLUTION)
E	% SATURATION OF SOLUTION BY ADDITIVE
H	GRAMS/100 GRAMS OF SOLVENT
I	MOLES/100 MOLES OF SURFACTANT
K	TOTAL NORMALITY OF COUNTERIONS
M	MOLAR (MOLES/LITER OF SOLUTION)
N	NORMAL (EQUIVALENTS/LITER OF SOLUTION)
P	W/W % (GRAMS/100 GRAMS OF SOLUTION)
Q	GRAMS/100 GRAMS OF SURFACTANT
R	VALUE VARIED DURING EXPERIMENT
S	MOLES/KILOGRAM OF SOLUTION
T	GRAMS/100 GRAMS OF SURFACTANT MIXTURE
U	MOLES/LITER OR KILOGRAM OF SOLUTION (UNSPECIFIED)
W	MOLAL (MOLES/KILOGRAM OF SOLVENT)
Y	PRESSURE IN ATMOSPHERES

Abbreviations: Words and Names

Abbreviations	Meaning	Abbreviations	Meaning
AZBZ	AZO BENZENE	N-3SOA*	N-(3SULFOLANYL) OLEYL AMIDE
BRPB	BROMPHENOL BLUE (DYE)	OROT	ORANGE OT (DYE)
BZL*	BENZYL	PDMAB	P-DIMETHYLAMINOAZOBENZENE
BZP4	BENZOPURPURINE 4B (DYE)	PLT	PLOT (GRAPH)
COND	CONDUCTANCE (ELECTRIC)	PMS*	POLYMETHYLSILOXANE
DCFL	DICHLOROFLUORESCINE (DYE)	PNCN	PINACYANOL
DMYL	DIMETHYL YELLOW (DYE)	RHDG	RHODAMINE 6G (DYE)
EOSN	EOSINE (DYE)	SDN4	SUDAN 4 (DYE)
EQN	EQUATIONS	SKYB	SKY BLUE SF (DYE)
ERTS	ERYTHROSIN (DYE)	SP	SPECIFIC
FL	FLUORESCINE (DYE)	SPCTR	SPECTRAL
FLUOR	FLUORESCENCE	TMCHGLET*	TRIMETHYL CYCLOHEXYL CARBINYL
POTMTR	PHOTOMETRIC		GLYCEROL ETHER
GLET*	GLYCERINE ETHER	TNSN	TENSION
HXMTF*	HEXAMETAPHOSPHATE	UNSPEC	NOT SPECIFIED BY REFERENCE
INPX	INDOPHENOL (DYE)	V.BR*	VERY BRANCHED
I2	IODINE	YLOB	YELLOW OB (DYE)
LOGMIC	LOGARITHMIC GRAPH	2NPA	2-NITRODIPHENYLAMINE
LOH	LAURYL (DODECYL) ALCOHOL		

Source Symbols

Source Code	Description
A	MISPRINT CORRECTED IN FIGURE QUOTED IN REFERENCE
C	UNITS CONVERTED FROM TABULATION IN REFERENCE
E	FROM EQUATIONS IN REFERENCE OF METHOD RESULTS
G	FROM GRAPH OF CMC VALUES IN REFERENCE
K	FROM GRAPH OF METHOD RESULTS IN REFERENCE
L	ALSO PERSONAL COMMUNICATIONS FROM AUTHOR
M	UNITS CONVERTED FROM PRECEDING
P	FROM OUR PLOT OF DATA IN REFERENCE
S	AVERAGE OF TABULATED VALUES
T	TABULATED OR FIGURE QUOTED IN REFERENCE

The code E in the numerical value of the concentration in the "Additive" column of the CMC tables stands for "times ten to the power".

Symbols for the quality of materials and methods are discussed on page 6 et seq.
Symbols for methods are discussed on page 8 et seq.