

**§ 21.105 Citronella oil, natural.**(a) *Java type*:(1) *Alcohol content (as Geraniol)*. Not less than 85 percent by weight.(2) *Aldehyde content (as Citronellal)*. Not less than 30 percent by weight.(3) *Refractive index at 20 °C*. 1.4660 to 1.4745.(4) *Specific gravity at 25 °/25 °C*. 0.875 to 0.893.(5) *Odor*. Characteristic odor.(b) *Ceylon type*:(1) *Alcohol content (as Geraniol)*. Not less than 55 percent by weight.(2) *Aldehyde content (as Citronellal)*. Not less than 7 percent by weight.(3) *Refractive index at 20 °C*. 1.4790 to 1.4850.(4) *Specific gravity at 25 °/25 °C*. 0.891 to 0.904.(5) *Odor*. Characteristic odor.

[T.D. ATF-133, 48 FR 24673, June 2, 1983. Re-designated by T.D. ATF-442, 66 FR 12854, Mar. 1, 2001]

**§ 21.106 Diethyl phthalate.**(a) *Refractive index at 25 °C*. 1.497 to 1.502.(b) *Color*. Colorless.(c) *Odor*. Practically odorless.(d) *Solubility*. Soluble in 20 parts of 60 percent alcohol.(e) *Specific gravity at 25 °/25 °C*. 1.115 to 1.118.(f) *Ester content (as diethyl phthalate)*. Not less than 99 percent by weight.

NOTE. The sample taken for ester determination should be approximately 0.8 gram. The number of ml of 0.5 N potassium hydroxide used in saponification multiplied by 0.05555 indicates the number of grams of ester in the sample taken for assay.

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**§ 21.107 Ethyl acetate.**(a) *85 percent ester*:(1) *Acidity (as acetic acid)*. Not more than 0.015 percent by weight.(2) *Color*. Colorless.(3) *Odor*. Characteristic odor.(4) *Ester content*. Not less than 85 percent by weight.(5) *Specific gravity at 20 °/20 °C*. Not less than 0.882.(6) *Distillation range*. (For applicable ASTM method, see 1980 Annual Book of ASTM Standards, Part 29, page 70,

Standard No. D 302-58 (1975); for incorporation by reference, see § 21.6(b).) When 100 ml of ethyl acetate are distilled by this method, none shall distill below 70 °C., not more than 10 ml shall distill below 72 °C., and none above 80 °C.

(b) *100 percent ester*:(1) *Acidity (as acetic acid)*. Not more than 0.010 percent by weight.(2) *Color*. Colorless.(3) *Odor*. Characteristic odor.(4) *Ester content*. Not less than 99 percent by weight.(5) *Specific gravity at 20 °/20 °C*. Not less than 0.899.(6) *Distillation range*. (For applicable ASTM method, see 1980 Annual Book of ASTM Standards, Part 29, page 433, Standard No. D 3127-77; for incorporation by reference, see § 21.6(b).) When 100 ml of ethyl acetate are distilled by this method, not more than 2 ml shall distill below 75 °C., and none above 80 °C. (760 mm).

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**§ 21.108 Ethyl ether.**(a) *Odor*. Characteristic odor.(b) *Specific gravity at 15.56 °/15.56 °C*. Not more than 0.728.

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**§ 21.109 Gasoline.**(a) *Distillation range*. When 100 ml of gasoline are distilled, none shall distill below 90 °F. Not more than 5 ml shall be collected below 140 °F., and not less than 50 ml shall distill below 230 °F.(b) *Odor*. Characteristic odor.

[T.D. ATF-133, 48 FR 24673, June 2, 1983. Re-designated by T.D. ATF-442, 66 FR 12854, Mar. 1, 2001]

**§ 21.110 Gasoline, unleaded.**

Conforms to specifications as established by the American Society for Testing and Materials (ASTM) in the 1980 Annual Book of ASTM Standards, Part 23, page 229, Standard No. D 439-79. Any of the "seasonal and geographical" volatility classes for unleaded gasoline are considered suitable