

## List of Methods of Analysis for Nonbeverage Products

| Analyte(s)  | Product Type | Technology                                       | Reference  |
|---|--------------|--|--|
| Acetic acid, Propylene Glycol, Glycerol, Benzaldehyde | NBA          | GC, HPLC   | AOAC Official Methods of Analysis 968.09, 972.1 (17th Ed); Am. J. Enol. Vitic. 54:1, 2003; LC-GC 16:12, 1998                                 |
| Alcohol   | NBA and SDA  | Distillation, GC                                 | AOAC Official Methods of Analysis 920.57, 920.58, 950.13, 982.10, 984.14 (17th Ed)   |
| Alcohol   | NBA and SDA  | Distillation, Densitometer                       | AOAC Official Methods of Analysis 920.47, 942.06, 945.07, 982.10, 983.12 (17th Ed.); ASBC Official Method Beer-4; 27CFR part 30              |
| Aparent Specific Gravity                              | NBA          | Density Meter                                    | AOAC Official Methods of Analysis 950.28, 982.10 (17th Ed)   |
| Ash   | NBA          | Muffle Oven                                      | AOAC Official Methods of Analysis 920.54, 920.67, 950.14 (17th Ed); 920.48 (15th Ed); ASBC Official Method Beer-14                           |
| Babcock Test  | NBA and SDA  | Babcock Test                                     | AOAC Official Methods of Analysis 942.08B, 955.17 (17th Ed)  |
| Ethanol for Solid Products                            | NBA          | Distillation, GC                                 | AOAC Official Methods of Analysis 920.57, 920.58, 950.13, 982.10 (17th Ed)   |
| Fusel Oils (Higher Alcohols) & Ethyl Acetate          | NBA          | Gas Chromatography                               | AOAC Official Methods of Analysis 968.09, 972.10 (17th Ed); JAOAC 64, 1981, 186-190  |
| Methanol  | NBA          | Gas Chromatography                               | AOAC Official Methods of Analysis 972.11(17th Ed)  |
| Obscuration   | NBA          | Evaporative method                               | JAOAC, 69:4 1986 pp. 709-7111  |
| pH  | NBA          | pH Meter   | AOAC Official Methods of Analysis 960.19 (17th Ed)   |
| Solids  | NBA          | Evaporative method                               | AOAC Official Methods of Analysis 920.47, 940.09, 950.27 (17th Ed)   |
| Sorbic Acid/Benzoic Acid                              | NBA          | HPLC   | AOAC Official Methods of Analysis 909.02, 967.15, 979.08, 983.16, 990.25, 994.11 (17th Ed); Hewlett-Packard Applicaton Note AN232-4          |
| Sugars  | NBA          | HPLC   | TTB Official Method  |
| Synthetic Color                                       | NBA          | HPLC   | AOAC Official Methods of Analysis 980.24 (17th Ed),  |
| Synthetic Color                                       | NBA          | Solid Phase Extraction/Thin-Layer Chromatography | JAOAC, 77:5, 1994 pp. 1335-37  |
| Total Acids   | NBA          | Auto Titrator                                    | AOAC Official Methods of Analysis 945.08, 950.15, 962.12 (17th Ed)   |
| Vanillin, Ethyl Vanillin, Coumarin, Heliotropin       | NBA          | HPLC   | AOAC Official Methods of Analysis 909.02, 945.98, 964.10, 966.12, 966.13, 967.15, 983.16 (17th Ed); Hewlett-Packard Application Note AN232-4 |
| Visual Examination                                    | NBA          | Physical Examination                             | AOAC Official Methods of Analysis 930.19, 950.12 (17th Ed)   |