

### § 21.103

One ml of 0.25 N hydrochloric acid equals 0.01 gram of sodium hydroxide (anhydrous).

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

#### § 21.103 Chloroform.

(a) *Odor*. Characteristic odor.

(b) *Specific gravity at 25 °/25 °C*. Not less than 1.400.

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

#### § 21.104 Cinchonidine.

(a) *Melting point*. 208° to 210 °C.

(b) *Color*. White powder.

(c) *Taste*. Bitter.

(d) *Test*. A solution of cinchonidine in dilute sulfuric acid shall not have more than a faint blue fluorescence (to distinguish from quinine and quinoidine).

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

#### § 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.

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(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.

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

#### § 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).

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

#### § 21.108 Ethyl ether.

(a) *Odor*. Characteristic odor.