

§ 21.100

1 N barium chloride solution are added to 10 ml of a solution of the alkaloid.

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

§ 21.100 *n*-Butyl alcohol.

(a) *Acidity (as acetic acid)*. 0.03 percent by weight maximum.

(b) *Color*. Colorless.

(c) *Dryness at 20 °C*. Miscible without turbidity with 10 volumes of 60° Bé1. gasoline.

(d) *Odor*. Characteristic odor.

(e) *Specific gravity at 20 °/20 °C*. 0.810 to 0.815.

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

§ 21.101 *tert*-Butyl alcohol.

(a) *Acidity (as acetic acid)*. 0.003 percent by weight maximum.

(b) *Color*. Colorless.

(c) *Distillation range*. When 100 ml of tertiary butyl alcohol are distilled, none should distill below 78 °C. and none above 85 °C. More than 95 percent should distill between 81 °–83 °C.

(d) *Dryness at 20 °C*. Miscible without turbidity with 19 volumes of 60° Bé1. gasoline.

(e) *Freezing point (first needle)*. Above 20 °C.

(f) *Identification test*. Place five drops of a solution containing approximately 0.1 percent tertiary butyl alcohol in ethyl alcohol in a test tube. Add 2 ml of Denige's reagent (dissolve 5 grams of red mercuric oxide in 20 ml of concentrated sulfuric acid; add this solution to 80 ml of distilled water, and filter when cool). Heat the mixture just to the boiling point and remove from the flame. A yellow precipitate forms within a few seconds.

(g) *Nonvolatile matter*. Less than 0.005 percent by weight.

(h) *Odor*. Characteristic odor.

(i) *Residual odor after evaporation*. None.

(j) *Specific gravity at 25 °/25 °C*. 0.780 to 0.786.

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§ 21.102 Caustic soda, liquid.

(a) The liquid caustic soda may consist of either 50 percent or 73 percent by weight sodium hydroxide in aqueous solution. The amount of caustic soda used shall be such that each 100 gallons of alcohol will contain not less than 8.76 pounds of sodium hydroxide, anhydrous basis.

(b) *Color*. A 2 percent solution of the sodium hydroxide in water shall be water-white.

(c) *Assay*. The sodium hydroxide content of the caustic soda solution shall be determined by the following procedure:

Accurately weigh 2 grams of liquid caustic soda into a 100 ml volumetric flask, dissolve, and dilute to the mark with distilled water at room temperature. Transfer a 25 ml aliquot of the solution to a titration flask, add 10 ml of 1 percent barium chloride solution, 0.2 ml of 1 percent phenolphthalein indicator, and 50 ml of distilled water. Titrate with 0.25 N hydrochloric acid to the disappearance of the pink color. Not less than 25 ml of the hydrochloric acid shall be required to neutralize the sample of diluted 50 percent caustic soda, and not less than 36.5 ml of the hydrochloric acid shall be required to neutralize the sample of diluted 73 percent caustic soda.

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

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§ 21.103 Chloroform.

(a) *Odor*. Characteristic odor.

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

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§ 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).

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