

## Alcohol and Tobacco Tax and Trade Bureau, Treasury

## § 21.113

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.

(b) *Specific gravity at 15.56 °/15.56 °C*. Not more than 0.728.

[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-T Ethyl tertiary butyl ether.

(a) *Purity*. ≥95.0 percent.

(b) *Color*. Colorless to light yellow.

(c) *Odor*. Terpene-like.

(d) *Specific gravity at 20 °C*. 0.70 to 0.80.

(e) *Boiling point (°C)*. 73.

[T.D. TTB-140, 81 FR 59462, Aug. 30, 2016]

### § 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 as a denaturant. (For incorporation by reference, see § 21.6(b).)

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

### § 21.111 [Reserved]

### § 21.112 Heptane.

(a) *Distillation range*. No distillate should come over below 200 °F. and none above 211 °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]

### § 21.112-T1 Hexane (mixed isomers).

(a) *General*. Minimum 55 percent *n*-hexane.

(b) *Distillation range*. No distillate should come over below 150 °F and none above 160 °F.

(c) *Odor*. Characteristic odor.

[T.D. TTB-140, 81 FR 59462, Aug. 30, 2016]

### § 21.112-T2 *n*-Hexane.

(a) *General*. Minimum 97 percent purity.

(b) *Distillation range*. No distillate should come over below 150 °F and none above 160 °F.

(c) *Odor*. Characteristic odor.

[T.D. TTB-140, 81 FR 59462, Aug. 30, 2016]

### § 21.112-T3 High octane denaturant blend.

(a) *API Gravity at 60 °F*. 40 to 65.

(b) *Reid Vapor Pressure (PSI)*. 6 to 15.

(c) *Isopropyl alcohol*. 24 to 40 percent volume.

(d) *Methyl alcohol*. 1.6 to 9.6 percent volume.

(e) *Diisopropyl ether (DIPE)*. 4 to 12 percent volume.

(f) *tert-Butyl alcohol*. 4 to 12 percent volume.

(g) *Iso-pentane*. 4 to 9 percent volume.

(h) *Pentane*. 4 to 9 percent volume.

(i) *Pentene*. 0 to 2.4 percent volume.

(j) *Hexane*. 2 to 6 percent volume.

(k) *Heptane*. 1 to 3 percent volume.

(l) *Sulfur (ppm)*. 0 to 120.

(m) *Benzene (% vol.)*. 0 to 1.1.

(n) *Distillation (°F)*:

(i) *10 percent*. 80 to 168.

(ii) *50 percent*. 250.

(iii) *End point distillation*. 437.

[T.D. TTB-140, 81 FR 59462, Aug. 30, 2016]

### § 21.113 Isopropyl alcohol.

*Specific gravity at 15.56 °/15.56 °C*. 0.810 maximum.

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