

Alcohol and Tobacco Tax and Trade Bureau, Treasury

§ 21.151

**USES OF SPECIALLY DENATURED ALCOHOL ¹—
Continued**

Product or process	Code No.	Formulas authorized
Iodine solutions (including U.S.P. and N.F. tinctures).	230	25, 25-A.
Laboratory reagents (for sale).	811	3-A, 3-C, 30.
Laboratory uses, general (own use only).	810	3-A, 3-C, 30.
Lacquer thinners	042	1, 23-A.
Liniments, U.S.P. or N.F.	243	38-B.
Lotions and creams (body, face, and hand).	113	23-A, 23-H, 31-A, 37, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Medicinal chemicals (processing).	344	1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 32, 35-A.
Miscellaneous chemicals (processing).	358	1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 35-A.
Miscellaneous products (processing).	359	1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 35-A.
Mouth washes	132	37, 38-B, 38-D, 38-F.
Organo-silicone products.	576	2-B, 3-A, 3-C, 30.
Pectin (processing)	331	1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 35-A.
Perfume materials (processing).	352	1, 2-B, 3-A, 3-C, 13-A, 30.
Perfumes and perfume tinctures.	121	38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Petroleum products	320	1, 2-B, 3-A, 3-C.
Photoengraving dyes and solutions.	481	1, 3-A, 3-C, 13-A, 30, 32.
Photographic chemicals (processing).	353	1, 2-B, 3-A, 3-C, 13-A, 30.
Photographic film and emulsions.	031	1, 2-B, 3-A, 3-C, 13-A, 19, 30, 32.
Pill and tablet manufacture.	349	1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 35-A, 38-B.
Plastics, cellulose	021	1, 2-B, 3-A, 3-C, 13-A, 30.
Plastics, non-cellulose (including resins).	022	1, 2-B, 3-A, 3-C, 13-A, 30.
Polishes	051	1, 3-A, 3-C, 30.
Preserving solutions	430	1, 3-A, 3-C, 13-A, 23-A, 30, 32, 37, 38-B, 44.
Product development and pilot plant (own use only).	812	All formulas.
Proprietary solvents	041	1, 3-A.
Refrigerating uses	740	1, 3-A, 3-C, 23-A, 30.
Resin coatings, natural	014	1, 23-A.
Resin coatings, synthetic.	012	1, 3-A, 3-C, 23-A, 30.
Resins, synthetic	590	3-A, 3-C, 29, 30, 35-A.
Room deodorants	470	3-A, 3-C, 37, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Rosin (processing)	354	1, 3-A, 3-C,
Rotogravure dyes and solutions.	481	1, 3-A, 3-C, 13-A, 30, 32.
Rubber (latex) (processing).	355	1, 3-A, 3-C.
Rubber, synthetic	580	29, 32.
Rubbing alcohol	220	23-H.
Scientific instruments ...	710	1, 3-A, 3-C.
Shampoos	141	1, 3-A, 3-C, 23-A, 31-A, 36, 38-B, 39-B, 40, 40-A, 40-B, 40-C.
Shellac coatings	013	1, 23-A.
Soaps, industrial	440	1, 3-A, 3-C, 23-A, 30.

**USES OF SPECIALLY DENATURED ALCOHOL ¹—
Continued**

Product or process	Code No.	Formulas authorized
Soaps, toilet	142	1, 3-A, 3-C, 23-A, 30, 36, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Sodium ethylate, anhydrous (restricted).	524	2-B.
Sodium hydrosulfite (dehydration).	312	1, 2-B, 3-A, 3-C.
Soldering flux	035	1, 3-A, 3-C, 23-A, 30.
Solutions, miscellaneous.	485	1, 3-A, 3-C, 13-A, 23-A, 30, 32, 35-A, 40-B, 40-C.
Solvents and thinners (other than proprietary solvents or special industrial solvents).	042	1, 23-A, 30.
Solvents, special (restricted sale).	043	1, 3-A, 3-C.
Stains (wood)	053	1, 3-A, 3-C, 23-A, 30.
Sterilizing solutions	430	1, 3-A, 3-C, 13-A, 23-A, 30, 32, 37, 38-B, 44.
Theater sprays	470	3-A, 3-C, 37, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Tobacco sprays and flavors.	460	4.
Toilet waters	122	38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Transparent sheetings ..	032	1, 2-B, 3-A, 3-C, 13-A, 23-A.
Unclassified uses ²	900	1, 3-A, 3-C.
Vaccine (processing)	343	1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 32, 35-A.
Vinegar	511	18, 29, 35-A.
Vitamins (processing) ...	342	1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 32, 35-A.
Xanthates	573	1, 2-B, 29.
Yeast (processing)	342	1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 32, 35-A.

¹Other products or processes may be authorized under § 21.31(c).

²Persons desiring other formulas for this use should indicate the fact in the space provided for this purpose on TTB Form 5150.19.

[T.D. ATF-133, 48 FR 24673, June 2, 1983, as amended by T.D. ATF-199, 50 FR 9183, Mar. 6, 1985; T.D. ATF-435, 66 FR 5475, Jan. 19, 2001; T.D. ATF-442, 66 FR 11854, Mar. 1, 2001; T.D. TTB-140, 81 FR 59463, Aug. 30, 2016]

**Subpart G—Denaturants
Authorized for Denatured Spirits**

§ 21.151 List of denaturants authorized for denatured spirits.

Following is an alphabetical listing of denaturants authorized for use in denatured spirits:

DENATURANTS AUTHORIZED FOR COMPLETELY DENATURED ALCOHOL (C.D.A.), SPECIALLY DENATURED ALCOHOL (S.D.A.), AND SPECIALLY DENATURED RUM (S.D.R.)

Acetaldehyde	S.D.A. 29.
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DENATURANTS AUTHORIZED FOR COMPLETELY DENATURED ALCOHOL (C.D.A.), SPECIALLY DENATURED ALCOHOL (S.D.A.), AND SPECIALLY DENATURED RUM (S.D.R.)—Continued

Acetone, U.S.P	S.D.A. 23-A, 23-H.
Acetaldo	C.D.A. 18.
Alkylate	C.D.A. 20.
Almond oil, bitter, N.F.X	S.D.A. 38-B.
Alpha Terpineol	S.D.A. 38-B.
Ammonia, aqueous	S.D.A. 36.
Ammonia solution, strong, N.F. ...	S.D.A. 36.
Anethole, N.F.	S.D.A. 38-B.
Anise oil, N.F.	S.D.A. 38-B.
Bay oil (myrcia oil), N.F.XI	S.D.A. 38-B, 39-D.
Benzaldehyde, N.F.	S.D.A. 38-B.
Bergamot oil, N.F.XI	S.D.A. 38-B.
Boric acid, N.F.	S.D.A. 38-F.
Brucine alkaloid	S.D.A. 40.
Brucine sulfate, N.F.IX	S.D.A. 40.
<i>n</i> -Butyl alcohol	S.D.A. 44.
<i>tert</i> -Butyl alcohol	S.D.A. 39-B, 40, 40-A, 40-B, 40-C.
Camphor, U.S.P	S.D.A. 38-B.
Caustic soda, liquid	S.D.A. 36.
Cedar leaf oil, U.S.P.XIII	S.D.A. 38-B.
Chlorothymol, N.F.XII	S.D.A. 38-B, 38-F.
Cinnamic aldehyde (cinnamaldehyde), N.F.IX.	S.D.A. 38-B.
Cinnamon oil, N.F.	S.D.A. 38-B.
Citronella oil, natural	S.D.A. 38-B.
Clove oil, N.F.	S.D.A. 38-B.
Coal tar, U.S.P	S.D.A. 38-B.
Corrmint oil	S.D.A. 38-B.
Cyclohexane	S.D.A. 3-A.
Denatonium benzoate, N.F.	S.D.A. 1, 40-B.
Diethyl phthalate	S.D.A. 39-B, 39-C.
Distilled lime oil	S.D.A. 38-B.
Ethyl acetate	C.D.A. 35; S.D.A. 29, 35-A.
Ethyl ether	S.D.A. 13-A, 19, 32.
Ethyl tertiary butyl ether	C.D.A. 20.
Eucalyptol, N.F.XII	S.D.A. 37, 38-B.
Eucalyptus oil, N.F.	S.D.A. 38-B.
Eugenol, U.S.P	S.D.A. 38-B.
Formaldehyde solution, U.S.P.	S.D.A. 38-D.
Gasoline	C.D.A. 18, 19; S.D.A. 28-A.
Gasoline, unleaded	C.D.A. 18, 19, 20; S.D.A. 28-A.
Glycerin (Glycerol), U.S.P	S.D.A. 31-A.
Green soap, U.S.P	S.D.A.
Guaiacol, N.F.X	S.D.A. 38-B.
Heptane	C.D.A. 18, 19; S.D.A. 2-B, 28-A.
Hexane	S.D.A. 2-B.
<i>n</i> -Hexane	S.D.A. 2-B.
High octane denaturant blend	C.D.A. 20.
Hydrochloric acid, N.F.	S.D.A. 38-F.
Iodine, U.S.P	S.D.A. 25, 25-A.
Isopropyl alcohol	S.D.A. 3-C.
Kerosene	C.D.A. 18, 19, 20.
Kerosene (deodorized)	C.D.A. 18, 19, 20.
L(-)-Carvone	S.D.A. 38-B.
Lavender oil, N.F.	S.D.A. 38-B.
Lemon oil	S.D.A. 38-B.
Menthol, U.S.P	S.D.A. 37, 38-B, 38-D, 38-F.
Methyl alcohol	S.D.A. 1, 3-A, 30.
Methylene blue, U.S.P	S.D.A. 4; S.D.R. 4.
Methyl isobutyl ketone	C.D.A. 18, 19; S.D.A. 1, 23-H.
Methyl <i>n</i> -butyl ketone	C.D.A. 18, 19; S.D.A. 1.
Methyl salicylate, N.F.	S.D.A. 38-B.
Methyl tertiary butyl ether	C.D.A. 20.

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DENATURANTS AUTHORIZED FOR COMPLETELY DENATURED ALCOHOL (C.D.A.), SPECIALLY DENATURED ALCOHOL (S.D.A.), AND SPECIALLY DENATURED RUM (S.D.R.)—Continued

Mustard oil, volatile (allyl isothiocyanate), U.S.P.XII.	S.D.A. 38-B.
Naphtha	C.D.A. 20.
Natural gasoline	C.D.A. 20.
Nicotine solution	S.D.A. 4; S.D.R. 4.
Nitropropane, mixed isomers of	C.D.A. 18, 19; S.D.A. 1.
Peppermint oil, N.F.	S.D.A. 38-B.
Peppermint oil, terpeneless	S.D.A. 38-B.
Phenol, U.S.P	S.D.A. 38-B.
Phenyl salicylate (salol), N.F.XI	S.D.A. 38-B.
Pine needle oil, dwarf, N.F.	S.D.A. 38-B.
Pine oil, N.F.	S.D.A. 38-B.
Poloxamer 407, N.F.	S.D.A. 38-F.
Polysorbate 80, N.F.	S.D.A. 38-F.
Potassium hydroxide	S.D.A. 36.
Potassium iodide, U.S.P	S.D.A. 25, 25-A.
Pyronate	C.D.A. 18.
Quassin	S.D.A. 40.
Quinine bisulfate, N.F.XI	S.D.A. 39-D.
Quinine sulfate, U.S.P	S.D.A. 39-D.
Raffinate	C.D.A. 20.
Rosemary oil, N.F. XII	S.D.A. 38-B.
Rubber hydrocarbon solvent	C.D.A. 18, 19, 20; S.D.A. 2-B, 28-A.
Safrole	S.D.A. 38-B.
Sassafras oil, N.F.XI	S.D.A. 38-B.
Shellac (refined)	S.D.A. 45.
Soap, hard, N.F.XI	S.D.A. 31-A.
Sodium iodide, U.S.P	S.D.A. 25, 25-A.
Sodium salicylate, U.S.P	S.D.A. 39-D.
Spearmint oil, N.F.	S.D.A. 38-B.
Spearmint oil, terpeneless	S.D.A. 38-B.
Spike lavender oil, natural	S.D.A. 38-B.
Storax, U.S.P	S.D.A. 38-B.
Straight run gasoline	C.D.A. 20.
Sucrose octaacetate	S.D.A. 40-A.
Thyme oil, N.F.XII	S.D.A. 38-B.
Thymol, N.F.	S.D.A. 37, 38-B, 38-F.
Tolu balsam, U.S.P	S.D.A. 38-B.
Toluene	C.D.A. 12-A; S.D.A. 2-B.
Turpentine oil, N.F.XI	S.D.A. 38-B.
Vinegar	S.D.A. 18.
Zinc chloride, U.S.P	S.D.A. 38-F.

[T.D. ATF-133, 48 FR 24673, June 2, 1983, as amended by T.D. ATF-442, 66 FR 12854, Mar. 1, 2001; T.D. TTB-140, 81 FR 59463, Aug. 30, 2016]

Subpart H—Weights and Specific Gravities of Specially Denatured Alcohol

§21.161 Weights and specific gravities of specially denatured alcohol.

The weight of one gallon of each formula of specially denatured alcohol at 15.56 °C. (60 °F.) is as listed in this section. The specific gravity of each formula of specially denatured alcohol at 15.56 °C./15.56 °C. (60 °F./60 °F.) in air is as listed in this section. (Weight of 1 gallon of water at 15.56 °C. (60 °F.) is 8.32823 pounds in air.)