

§ 21.133

(d) *Specific gravity at 15.56 °/15.56 °C.* 0.869 to 0.873.

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

§ 21.133 **Vinegar.**

(a) *Vinegar, 90-grain:*  
*Acidity (as acetic acid).* 9.0 percent by weight, minimum.  
 (b) *Vinegar, 60-grain:*  
*Acidity (as acetic acid).* 6.0 percent by weight, minimum.

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

**Subpart F—Uses of Specially Denatured Alcohol and Specially Denatured Rum**

§ 21.141 **List of products and processes using specially denatured alcohol and rum, and formulas authorized therefor.**

This section lists, alphabetically by product or process, formulas of specially denatured alcohol authorized for use in those products or processes, and lists the code numbers assigned thereto. Specially denatured rum, as well as specially denatured alcohol, may be used in tobacco sprays and flavors, Code No. 460, under Formula No. 4.

USES OF SPECIALLY DENATURED ALCOHOL <sup>1</sup>

Product or process	Code No.	Formulas authorized
Acetaldehyde .....	551	1, 2-B, 29.
Acetic acid .....	512	29, 35-A.
Adhesives and binders	036	1, 3-A, 3-C, 12-A, 23-A, 30.
Aldehydes, miscellaneous.	552	1, 2-B, 29.
Alkaloids (processing) ..	344	1, 2-B, 2-C, 3-A, 3-C, 12-A, 13-A, 17, 23-A, 30, 32, 35-A.
Animal feed supplements.	910	35-A.
Antibiotics (processing)	343	1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A.
Antifreeze, proprietary ..	760	1.
Antiseptic, bathing solution (restricted).	220	46.
Antiseptic solutions, U.S.P. or N.F.	244	23-A, 37, 38-B, 38-F.
Bath preparations .....	142	1, 3-A, 3-B, 3-C, 23-A, 30, 36, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Bay rum .....	112	23-A, 37, 38-B, 39, 39-B, 39-D, 40, 40-A, 40-B, 40-C.

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USES OF SPECIALLY DENATURED ALCOHOL <sup>1</sup>—Continued

Product or process	Code No.	Formulas authorized
Biocides, miscellaneous	410	1, 3-A, 3-B, 3-C, 23-A, 23-H, 27-A, 27-B, 30, 37, 38-B, 39-B, 40, 40-A, 40-B, 40-C.
Blood and blood products (processing).	345	1, 3-A, 3-C, 12-A, 13-A, 23-A, 30.
Brake fluids .....	720	1, 3-A, 3-C.
Candy glazes .....	015	13-A, 23-A, 35, 35-A, 45.
Cellulose coatings .....	011	1, 3-A, 3-C, 23-A, 30.
Cellulose compounds (dehydration).	311	1, 2-B, 3-A, 3-C, 32.
Cellulose intermediates	034	1, 3-A, 3-C, 13-A, 19, 23-A, 32.
Chemicals (miscellaneous).	579	1, 2-B, 2-C, 3-A, 3-C, 6-B, 12-A, 13-A, 17, 20, 29, 30, 32, 36.
Cleaning solutions .....	450	1, 3-A, 3-C, 23-A, 23-H, 30, 36, 39-B, 40, 40-A, 40-B, 40-C.
Coatings, miscellaneous	016	1, 3-A, 3-C, 23-A.
Colloidions, industrial ....	034	1, 3-A, 3-C, 13-A, 19, 23-A, 32.
Collodion, U.S.P. ....	241	13-A, 19, 32.
Colognes .....	122	38-B, 39, 39-A, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Crude drugs (processing).	341	1, 2-B, 3-A, 3-C, 23-A, 30.
Cutting oils .....	730	1, 3-A, 3-C.
Dehydration products, miscellaneous.	315	1, 2-B, 3-A, 3-C.
Dentifrices .....	131	31-A, 37, 38-B, 38-C, 38-D.
Deodorants (body) .....	114	23-A, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Detergents, household	450	1, 3-A, 3-C, 23-A, 23-H, 30, 36, 39-B, 40, 40-A, 40-B, 40-C.
Detergents, industrial ...	440	1, 3-A, 3-C, 23-A, 30.
Detonators .....	574	1, 6-B.
Disinfectants .....	410	1, 3-A, 3-B, 3-C, 23-A, 23-H, 27-A, 27-B, 30, 37, 38-B, 39-B, 40, 40-A, 40-B, 40-C.
Drugs and medicinal chemicals.	575	1, 2-B, 2-C, 3-A, 3-C, 6-B, 12-A, 13-A, 17, 29, 30, 32.
Drugs, miscellaneous (processing).	349	1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 35-A, 38-B.
Duplicating fluids .....	485	1, 3-A, 3-C, 30.
Dyes and intermediates	540	1, 2-B, 2-C, 3-A, 3-C, 12-A, 29, 36.
Dyes and intermediates (processing).	351	1, 2-B, 3-A, 3-C, 12-A.
Dye solutions, miscellaneous.	482	1, 3-A, 3-C, 23-A, 30.
Embalming fluids, etc ...	420	1, 3-A, 3-C, 22, 23-A.
Esters, ethyl (miscellaneous).	523	1, 2-B, 2-C, 6-B, 12-A, 13-A, 29, 32, 35-A.
Ether, ethyl .....	561	1, 2-B, 13-A, 29, 32.
Ethers, miscellaneous ..	562	1, 2-B, 13-A, 29, 32.
Ethyl acetate .....	521	1, 2-B, 29, 35-A.
Ethylamines .....	530	1, 2-B, 2-C, 3-A, 3-C, 12-A, 29, 36.
Ethyl chloride .....	522	1, 2-B, 29, 32.
Ethylene dibromide .....	571	1, 2-B, 29, 32.
Ethylene gas .....	572	1, 2-B, 29, 32.
Explosives .....	033	1, 2-B, 3-A, 3-C.

Alcohol and Tobacco Tax and Trade Bureau, Treasury

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USES OF SPECIALLY DENATURED ALCOHOL <sup>1</sup>—  
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Product or process	Code No.	Formulas authorized
External pharmaceuticals, not U.S.P. or N.F.	210	23-A, 23-F, 23-H, 27, 27-A, 27-B, 33, 36, 37, 38-B, 38-F, 39-B, 40, 40-A, 40-B, 40-C.
External pharmaceuticals, miscellaneous, U.S.P. or N.F.	249	23-A, 25, 25-A, 33, 38-B, 40-B.
Fluid uses, miscellaneous.	750	1, 3-A, 3-C, 23-A, 30.
Food products, miscellaneous (processing).	332	1, 2-B, 3-A, 3-C, 13-A, 23-A, 30, 32, 35-A.
Fuel uses, miscellaneous.	630	1, 3-A, 3-C, 28-A.
Fuels, airplane and supplementary.	612	1, 3-A, 3-C, 28-A.
Fuels, automobile and supplementary.	611	1, 3-A, 3-C, 28-A.
Fuels, proprietary heating.	620	1, 3-A, 3-C, 28-A.
Fuels, rocket and jet	613	1, 3-A, 3-C, 28-A.
Fungicides	410	1, 3-A, 3-B, 3-C, 23-A, 23-H, 27-A, 27-B, 30, 37, 38-B, 39-B, 40, 40-A, 40-B, 40-C.
Glandular products (processing).	342	1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A.
Hair and scalp preparations.	111	3-B, 23-A, 23-F, 23-H, 37, 38-B, 39, 39-A, 39-B, 39-C, 39-D, 40, 40-A, 40-B, 40-C.
Hormones (processing)	342	1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A.
Incense	470	3-A, 3-C, 22, 37, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Inks	052	1, 3-A, 3-C, 13-A, 23-A, 30, 32, 33.
Insecticides	410	1, 3-A, 3-B, 3-C, 23-A, 23-H, 27-A, 27-B, 30, 37, 38-B, 39-B, 40, 40-A, 40-B, 40-C.
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	27, 27-B, 38-B.
Lotions and creams (body, face, and hand).	113	23-A, 23-H, 31-A, 37, 38-B, 39, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Medicinal chemicals (processing).	344	1, 2-B, 2-C, 3-A, 3-C, 12-A, 13-A, 17, 23-A, 30, 32, 35-A.
Miscellaneous chemicals (processing).	358	1, 2-B, 2-C, 3-A, 3-C, 12-A, 13-A, 17, 23-A, 30, 35-A.
Miscellaneous products (processing).	359	1, 2-B, 2-C, 3-A, 3-C, 12-A, 13-A, 17, 23-A, 30, 35-A.
Mouth washes	132	37, 38-B, 38-C, 38-D, 38-F.
Organo-silicone products.	576	2-B, 3-A, 3-C, 30.

USES OF SPECIALLY DENATURED ALCOHOL <sup>1</sup>—  
Continued

Product or process	Code No.	Formulas authorized
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, 12-A, 13-A, 30.
Perfumes and perfume tinctures.	121	38-B, 39, 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, 12-A, 13-A, 30.
Plastics, non-cellulose (including resins).	022	1, 2-B, 3-A, 3-C, 12-A, 13-A, 30.
Polishes	051	1, 3-A, 3-C, 30.
Preserving solutions	430	1, 3-A, 3-C, 12-A, 13-A, 22, 23-A, 30, 32, 37, 38-B, 42, 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, 22, 37, 38-B, 39-B, 39-C, 40, 40-A, 40-B, 40-C.
Rosin (processing)	354	1, 3-A, 3-C, 12-A.
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-B, 3-C, 23-A, 27-B, 31-A, 36, 38-B, 39-A, 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.
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, 23-A, 30, 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, 12-A, 13-A, 22, 23-A, 30, 32, 37, 38-B, 42, 44.

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USES OF SPECIALLY DENATURED ALCOHOL<sup>1</sup>—  
Continued

Product or process	Code No.	Formulas authorized
Theater sprays .....	470	3-A, 3-C, 22, 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, 39-A, 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 <sup>2</sup> .....	900	1, 3-A, 3-C.
Vaccine (processing) ....	343	1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A.
Vinegar .....	511	18, 29, 35-A.
Vitamins (processing) ...	342	1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A.
Xanthates .....	573	1, 2-B, 29.
Yeast (processing) .....	342	1, 2-B, 3-A, 3-C, 12-A, 13-A, 23-A, 30, 32, 35-A.

<sup>1</sup>Other products or processes may be authorized under §21.31(c).

<sup>2</sup>Persons 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]

**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.
Acetone, U.S.P .....	S.D.A. 23-A, 23-H.
Acetaldol .....	C.D.A. 18.
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. 23-F, 38-B, 39-D.
Benzaldehyde, N.F .....	S.D.A. 38-B.
Benzene .....	S.D.A. 2-B, 2-C, 12-A.
Bergamot oil, N.F.XI .....	S.D.A. 23-F, 38-B.
Bone oil (Dipple's oil) .....	S.D.A. 17.
Boric acid, N.F .....	S.D.A. 38-F.
Brucine alkaloid .....	S.D.A. 40.
Brucine sulfate, N.F.IX .....	S.D.A. 40.
n-Butyl alcohol .....	S.D.A. 44.

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

tert-Butyl alcohol .....	S.D.A. 39, 39-A, 39-B, 40, 40-A, 40-B, 40-C.
Camphor, U.S.P .....	S.D.A. 27, 27-A, 38-B.
Caustic soda, liquid .....	S.D.A. 36.
Cedar leaf oil, U.S.P.XIII .....	S.D.A. 38-B.
Chloroform .....	S.D.A. 20.
Chlorothymol, N.F.XII .....	S.D.A. 38-B, 38-F.
Cinchonidine .....	S.D.A. 39-A.
Cinchonidine sulfate, N.F.IX .....	S.D.A. 39-A.
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. 27-A, 38-B.
Clove oil, N.F .....	S.D.A. 38-B.
Coal tar, U.S.P .....	S.D.A. 1, 40-B.
Denatonium benzoate, N.F. ....	S.D.A. 39-B, 39-C.
Diethyl phthalate .....	S.D.A. 29, 35, 35-A.
Ethyl acetate .....	S.D.A. 13-A, 19, 32.
Ethyl ether .....	S.D.A. 37, 38-B.
Eucalyptol, N.F.XII .....	S.D.A. 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. 22, 38-C, 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.
Gentian violet .....	S.D.A. 33.
Gentian violet, U.S.P .....	S.D.A. 33.
Glycerin (Glycerol), U.S.P .....	S.D.A. 31-A.
Green soap, U.S.P .....	S.D.A. 27-B.
Guaiacol, N.F.X .....	S.D.A. 38-B.
Heptane .....	C.D.A. 18, 19; S.D.A. 2-B, 28-A.
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.
Lavender oil, N.F .....	S.D.A. 27-B, 38-B.
Menthol, U.S.P .....	S.D.A. 37, 38-B, 38-C, 38-D, 38-F.
Mercuric iodide, red, N.F.XI .....	S.D.A. 42.
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 n-butyl ketone .....	C.D.A. 18, 19; S.D.A. 1.
Methyl salicylate, N.F .....	S.D.A. 38-B, 46.
Mustard oil, volatile (allyl isothiocyanate), U.S.P.XII.	S.D.A. 38-B.
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.
Phenol, U.S.P .....	S.D.A. 38-B, 46.
Phenyl mercuric benzoate .....	S.D.A. 42.
Phenyl mercuric chloride, N.F.IX	S.D.A. 42.
Phenyl mercuric nitrate, N.F .....	S.D.A. 42.
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.
Pine tar, U.S.P .....	S.D.A. 3-B.
Polysorbate 80, N.F .....	S.D.A. 38-F.
Potassium iodide, U.S.P .....	S.D.A. 25, 25-A, 42.
Pyridine bases .....	S.D.A. 6-B.
Pyronate .....	C.D.A. 18.
Quassia, fluid extract, N.F.VII ...	S.D.A. 39.
Quassin .....	S.D.A. 40.
Quinine, N.F.X .....	S.D.A. 39-A.
Quinine bisulfate, N.F.XI .....	S.D.A. 39-A, 39-D.