



Max Machinery, Inc.

Fluid Compatibility Guide

This guide contains an alphabetical listing of many common fluids and some of their properties. Most of the fluids listed also have a compatibility rating to the materials of construction used in Max Flow Meters.

Please note that the “A, B, C, D” rating shown is only between the fluid and the specific material of construction. It is not intended to reflect the compatibility of that fluid with any Max Flow Meter.

Any questions regarding the compatibility of any fluid with a Max Flow Meter should be directed to the factory for final determination.

A	Excellent
B	Good
C	Fair
D	Not Recommended
Blank	Insufficient Information



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Fluid Compatibility Guide

Chemicals	Formula/Notes	Specific Gravity (60° F)	Typical Viscosity (CPS)	Aluminum	Carbon Steel	304 SS	316 SS	440C SS	Buna-M	EPR	Viton	Teflon	Carbon
Abetic Acid						A	A						A
Acetaldehyde	CH ₃ CHO	0.783	0.22	B	C	A	A	A	C	A	D	A	A
Acetates	(CH ₃ COO)			A	B	A	A	A	D	A	D	A	A
Acetic Acid (50%)	CH ₃ COOH	1.057	1.22	C	D	A	A	D	B	B	D	A	A
Acetic Acid (Glacial)	CH ₃ COOH	1.049		A	D	A	A	B	B	B	D	A	A
Acetic Anhydride	(CH ₃ CO) ₂ O	1.083	0.90	B	D	B	B	C	D	B	D	A	A
Acetone	CH ₃ COCH ₃	0.797	0.31	B	A	B	B	B	D	A	D	A	A
Acrylic Emulsions				B	C	A	A	A	A		A	A	A
Acrylonitrile	H ₂ CCHCN 0.800			B	A	A	A	A	D	D	C	A	A
Alcohol-Allyl	CH ₂ CHCH ₂ OH	0.852	1.36	B	B	B	B	B	A			A	A
Alcohol-Amyl	CH ₃ (CH ₂) ₃ CH ₂ OH	0.817	4.65	A	B	A	A	B	B	A	B	A	A
Alcohol-Butyl	CH ₃ (CH ₂) ₂ CH ₂ OH (Butanol)	0.810	2.94	A	B	A	A	B	A	B	A	A	A
Alcohol-Diacetone	CH ₃ COCH ₂ C(CH ₃) ₂ OH	0.940	3.20	A	B	A	A	B	D	A	D	A	A
Alcohol-Ethyl	C ₂ H ₅ OH	0.804	1.20	B	B	A	A	B	A	A	C	A	A
Alcohol-Furfuryl	C ₄ H ₃ OCH ₂ OH	1.128		B	B	B	B	B	D	B	C	A	A
Alcohol-Isopropyl	(CH ₃) ₂ CHOH	0.786		B	B	B	B	B	B	A	A	A	A
Alcohol-Methyl	CH ₃ OH	0.792	0.59	D	B	A	A	B	A	A	D	A	A
Aliphatic Solvents				A	A	A	A	A	D	A	A	A	A
Alkyd Resin				B	C	A	A	A	A	D	A	A	A
Alkyl Benzene	C ₂ H ₅ - C ₆ H ₆			B	A	A	A	A	D	D	A	A	A
Allyl Chloride	CH ₂ CHCH ₂ CL	0.938		D	B	B	B	B	A			A	A
Aluminum Ammonium Sulfate	AlNH ₄ (SO ₄) ₂	1.645		D	D	B	A	D	A	A	A	A	A
Aluminum Chloride (10%)	AlCl ₃ •6H ₂ O	1.07		D	D	B	A	D	A	A	A	A	A
Aluminum Sodium Sulfate (Aq)	Al ₂ (SO ₄) ₃ •Na ₂ SO ₄ •24H ₂ O	1.67		D	D	B	A	D	A	A	A	A	A
Amines	(NH ₃)			C	B	A	A	A	B	B	D	A	A
Ammonia (Anh)	NH ₃	0.77	0.25@ -33°F	B	A	A	A	A	B	A	D	A	A
Ammonia Solutions	NH ₄			B	A	A	A	A	B	A	D	A	A
Ammonium Carbonate	NH ₄ HCO ₃			B	B	B	B	B	A	A	A	A	A

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Ammonium Chloride (0-24%)	NH4Cl	1.04 - 1.06		C	B	A	A	B	A	A	A		A
Ammonium Hydroxide (28%)	NH4OH	0.900		C	B	B	B	B	C	A	D	A	A
Ammonium Hydroxide (34%)	NH4OH	0.882		C	B	B	B	B	D	A	D	A	A
Ammonium Nitrate (8-42%)	NH4NO3	1.03		B	D	A	A	A	A	A	B	A	A
Ammonium Phosphate	(NH4)3HPO4	1.61		B	D	A	A	A	A	A		A	A
Ammonium Sulfate	(NH4)2SO4	1.28		C	C	A	A	B	A	A	D	A	A
Amyl Acetate	CH3CO2C5H11	0.879	0.89	B	C	A	A	A	D	A	D		A
Aniline	C6H5NH2	1.023	4.40	C	C	A	A	B	D	B	C	A	A
Anionic Detergents				A	A	A	A	A	A	D	A	A	A
Antimony Trichloride	SbCl3	3.14		D	D	D	D	D				A	
Asphalt @ 450°F	Bitumens		2000 SSU	C	A	A	A	A	D	D	C	A	A
Barium Carbonate	BaCO3	3.85		B	B	B	B	B	A	A	A	A	A
Barium Chloride (26%)	BaCl2 • 2H2O	1.27		D	C	C	C	B	A	A	A	A	A
Barium Hydroxide	Ba(OH)2	1.656		D	B	B	A	B	A	A	A	A	A
Barium Sulfate	BaSO4	4.25		D	C	B	B	B	A	A	A	A	A
Barium Sulfide	BaS	4.25		D	C	B	B	B	A	A	A	A	A
Beef Tallow				D	B	A	A	A	A	B	A	A	A
Beer				A	C	A	A	A	A	A	A	A	A
Beet Sugar Liquors	Sucrose			A	B	A	A		A	A	A	A	A
Benzaldehyde				A	A	A	A	A				A	A
Benzene	C6H6	0.879	0.652	B	B	B	B	B	D	D	A	A	A
Benzoic Acid	C6H5COOH	1.265		B	D	B	B	B	D	D	A	A	A
Benzyl Alcohol	C6H5CH2OH	1.040		B	A	B	B	B	D	B	A	A	A
Boric Acid	H3BO3	1.434		B	D	A	A	B	A	A	A	A	A
Bunker Oils				A	A	A	A	A	A	D	A	A	A
Butadiene	C4H6	0.621		A	B	A	A	A			A	A	A
Butane	C4H10	0.599		A	B	A	A	A	A	D	A	A	A
Butyl Acetate	CH3COOC4H9	0.875	0.732	B	B	B	B	B	D	B	D	A	A

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Butylcellosolve	CH ₂ OHCH ₂ OC ₄ H ₉	0.901	6.40	A	A	A	A	A	D	B	D	A	A
Butylene	C ₄ H ₈	0.595		A	A	A	A	A	B	D	A	A	A
Butylene Glycol	HOCH ₂ CH ₂ CH(OH)CH ₃	1.00		A	A	A	A	A	A		A	A	A
Butyl ethyl Ketone	C ₄ H ₉ COC ₂ H ₅	0.819		A	A	A	A	A	D	A	D	A	A
Butyraldehyde	CH ₃ (CH ₂)CHO	0.804	0.43	A	A	A	A	A	D	B	D	A	A
Buttermilk				A	D	A	A	A	A	A	A	A	A
Calcuim Chloride (38%)	CaCl ₂ •6H ₂ O	1.33		D	D	B	B	C	A	A	A	A	A
Butyric Acid	C ₄ H ₂ OOH	0.958	1.61	B	D	B	B	C	D	B	B	A	A
Calcium Hydroxide	Ca(OH) ₂	2.34		D	C	B	B	B	A	A	A	A	A
Calcium Hypochlorite (Aqueous)	Ca(OC1) ₂			C	D	C	C	C	B	A	A	A	A
Calcium Nitrate (Aqueous)	Ca(NO ₃) ₂ •4H ₂ O	1.82		D	B	A	A	A	A	A	A	A	A
Calcium Sulfate 10%	CaSO ₄	2.45	14	B	B	A	A	A	B	A	A	A	A
Camphene	C ₁₀ H ₁₆	0.833		B	B	B	B	B	A	D	A	A	A
Capric Acid	CH ₃ (CH ₂) ₈ COOH	.885 @ 40°C		B	B	C	A	B	B	C	A	A	A
Caproic Acid	CH ₃ (CH ₂) ₄ COOH	.927 @ 20°C	3.10	A	D	A	A	B	B	C	A	A	A
Caprylic Acid	CH ₃ (CH ₂) ₆ COOH	.915 @ 20°C		A	D	A	A	B	B	C	A	A	A
Carbitol	C ₄ H ₉ OC ₂ H ₄ OC ₂ H ₄ OH	0.953	6.40	A	A	A	A	A	B	B	B	A	A
Carbitol Acetate	CH ₃ COOC ₂ H ₄ OC ₂ H ₄ OC ₂ H ₅	1.01	2.70	A	A	A	A	A	D	B	D	A	A
Carbolic Acid (20%)	Phenol	1.07	65 SSU	A	D	A	A	B	D	B	A	A	A
Carbon Dioxide	CO ₂	1.10 @ -37°C		A	A	A	A	A	A	B	B	A	A
Carbon Disulphide	CS ₂	1.26	0.36	A	B	A	A	B	A	D	A	A	A
Carbon Tetrachloride (Dry)	CCl ₄	1.59	1.03	C	C	A	A	C	B	D	A	A	A
Carbonic Acid	H ₂ CO ₃	2.44		A	A	A	A	A	B	A	A	A	A
Castor Oil		0.969	98.0	A	A	A	A	A	B	A	A	A	A
Cellosolve	HOC ₂ H ₄ OC ₄ H ₉	0.901	6.40	A	A	A	A	A	D	B	D	A	A
Cellosolve Acetate	CH ₃ COOC ₂ H ₄ OC ₂ H ₅	0.978	1.32	A	A	A	A	A	D	B	D	A	A
Cerotic Acid	CH ₃ (CH ₂) ₂₄ COOH	.819 @ 100°C		A	D	A	A	B	B	C	A	A	A
Cetane	Hexadecane	0.773		A	A	A	A	A	A	D	A	A	A

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Chlorinated Solvents				A	A	A	A	A	D	D	A	A	A
Chlorine (Dry)	CL ₂	1.46		D	B	B	B	B	D	D	A	A	A
Chloroacetic Acid	CH ₂ ClCOOH	1.370 @ 70°C		D	D	D	D	D	D	B	D	A	A
Chlorobenzene	C ₆ H ₅ Cl	1.105 @ 25°C	0.79	B	B	B	B	B	D	D	A	A	A
Chloroform (Dry)	CHCl ₃	1.485 @ 20°C	0.58	D	B	A	A	A	D	D	A	A	A
Chlorosulfonic Acid	ClSO ₂ OH	1.76 @ 20°C		B	B	B	B	D	D	D	D	A	A
Chlorothene	CH ₃ CCl ₃	1.319 @ 25°C		A	A	A	A	A	D		A	A	A
Chromic Acid	H ₃ CrO ₄	2.67		D	D	C	C	D	B	D	A	A	A
Citric Acid	C ₃ H ₄ OH(COOH) ₃	1.54		C	D	A	A	D	A	A	A	A	A
Coca Cola						A	A	A				A	A
Coconut Oil		0.925	27.0	B	C	A	A	B	A	A	A	A	A
Cod Liver Oil		0.918	160 SSU	A	D	A	A	B	A	A	A	A	A
Copper Nitrate 5-50%	Cu(NO ₃) ₂ •3H ₂ O	2.174		D	D	A	A	B				A	A
Copper Sulfate	CuSO ₄ •5H ₂ O	2.284		C	D	B	B	B	A	A	A	A	A
Corn Oil	(Fatty Acid)	0.914-0.921	26.0 @ 130°F	B	C	A	B	B	A	C	A	A	A
Cottonseed Oil		0.915-0.921	70.4	B	C	B	B	B	A	C	A	A	A
Cresylic Acid 50%	(Cresol)	1.034		C	C	B	B	A	D	D	A	A	A
Creosote	(Coal Tar)	1.04-1.10	12.0	B	B	A	A	A	A	D	A	A	A
Crude Oil (Sour)	0.5-2.5% Sulfur			A	B	A	A	B	B	D	A	A	A
Crude Oil (Sweet)	0.2-0.5% Sulfur			A	A	A	A	A	B	D	A	A	A
Cryogenics	Liquid O ₂ , N ₂ , CO ₂			A	D	A	A	B	D	D	D	A	D
Cumene	C ₆ H ₅ CH(CH ₃) ₂	0.862	0.73	B	B	B	B	B	D	D	A	A	A
Cupric Chloride	CuCl ₂ •2H ₂ O	2.39		D	D	D	D	D	A	A	A	A	A
Cuprous Chloride	CuCl	3.35		D	D	D	D	D	A	A	A	A	A
Cutting Oil-Water Emulsions				A	B	A	A	A	A	D	A	A	A
Cyclo Hexane	C ₆ H ₁₂	0.779	1.02	A	A	A	A	A	A	D	A	A	A
Cyclo Hexanone	C ₆ H ₁₀ O	0.943		B	D	B	B	B	D	B	D	A	A

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D.D.T.	(CLC6H4)2CHCCL3			D	A	A	A	A	B	D	A	A	A
Decyl Alcohol	C10H21OH	0.829		A	A	A	A	A				A	A
Denatured Alcohol	(Denatured Ethyl Alcohol)			A	A	A	A	A	A	A	A	A	A
Diammonium Phosphate	Ammonium Phosphate	1.61		B	D	A	A	B	A	A		A	A
Dibutyl Phthalate	C6H4(COOC4H9)2	1.048 @ 20°C	20.0	B	B	B	A	B	D	B	B	A	A
Dichloroethyl Ether	C2H4ClOC2H4Cl	1.222	2.95	A	A	A	A	A	D	C	C	A	A
Dichloro Propane	CH3CHCLCH2CL	1.158	0.88	B	A	A	A	A	B	D	A	A	A
Diethanol Amine	(HOCH2CH2)2NH	1.092		A	A	A	A	A	B	B	D	A	A
Diethyl Aniline	(C2H5)2C6H3NH2	0.959		B	A	B	B	B	D	A	D	A	A
Diethyl Ketone	C2H5COC2H5	0.816		A	A	A	A	A	D	A	D	A	A
Diethylene Glycol	C4H8			A	A	A	A	A	A	A	A	A	A
Diethylene Triamine	(NH2C2H4)2NH	0.954	7.0	A	A	A	A	A	B	B	D	A	A
Diethyl Sulfate	(C2H5)2SO4	1.180	1.79	A	A	A	A	A	A		A	A	A
Diisobutyl Ketone	C4H9COC4H9	0.808		A	A	A	A	A	D	A	D	A	A
Dimethylamine	(CH3)2NH	0.686		A	A	A	A	A	B	B	D	A	A
Dimethyl Formamide	HCON(CH3)2	0.953		D	A	A	A	A	D	B	B	A	A
Diethyl Adipate	D.O.A.2	0.926	13.7	D	A	A	A	A	D	B	B	A	A
Diethyl Phthalate	(C8H17COO)2C6H4	0.965		B	B	B	A	B	D	B	B	A	A
Dioxane	C4H8O2	1.035 @ 20°C	1.31	B	A	A	A	A	D	B	D	A	A
Dipentene	C10H16	0.847 @ 15°C		A	A	A	A	A	D	D	A	A	A
Dipropylene Glycol	(C3H6OH)2O	1.025	107.0	A	A	B	B	B	A	A	A	A	A
Dodecyl Benzene	Detergent			A	A	A	A	A	D	D	A	A	A
Dowtherms	Diphenyl Oxides	1.060		A	B	A	A	A	D	D	A	A	A
Ethane	C6H6	0.446		A	A	A	A	A	A	D	A	A	A
Ether Dimethyl	CH3OCH3	0.661	0.23	B	A	A	A	A	D	C	C	A	A
Ethers	(CH5)2O	0.736	0.23	B	B	A	A	A	D	C	C	A	A
Ethanol Amine	HOCH2CH2NH2	1.017		A	B	A	B	B	B	B	D	A	A

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Ethyl Acetate	CH ₃ COOC ₂ H ₅	0.883	0.45	A	B	B	B	B	D	B	D	A	A
Ethyl Acrylate	CH ₂ CHCOOC ₂ H ₅	0.92		A	A	A	A	A	D	B	D	A	A
Ethyl Amine	CH ₃ CH ₂ NH ₂	0.689		A	B	A	B	B	B	B	D	A	A
Ethyl Aniline	C ₂ H ₅ NHC ₆ H ₅	0.963	2.04	B	A	B	B	B	D	A	D	A	A
Ethyl Benzene	C ₆ H ₅ C ₂ H ₅	0.867	0.64	A	A	B	B	B	D	A	A	A	A
Ethyl Chloride (Dry)	C ₂ H ₅ Cl	0.921		B	B	A	A	A	A	A	A	A	A
Ethyl Chloride (Wet)	C ₂ H ₅ Cl	0.921		D	D	C	C	D	A	A	A	A	A
Ethyl Ether	(C ₂ H ₅) ₂ O	0.714	0.23	B	A	A	A	A	D	C	C	A	A
Ethyl Hexanol	CH ₃ CH ₂ CH ₂ COH(C ₂ H ₅) ₂	0.83		B	A	A	A	A	A	A	A	A	A
Ethyl Lactate	CH ₃ CHOHCOOC ₂ H ₅	0.1020		B	B	B	B	B	A		A	A	A
Ethyl Mercaptan	C ₂ H ₅ SH	0.839		B	D	B	B	B	D	D	A	A	A
Ethyl Oxide	Ether	0.714	0.23	B	B	A	A	A	D	C	C	A	A
Ethyl Propyl Myristate	CH ₃ (CH ₂) ₁₂ COOC ₂ H ₅			A	A	A	A	A	D	A	D	A	A
Ethyl Propyl Palmitate	C ₂ H ₅ (CH ₂) ₁₄ COOC ₂ H ₅	0.83		A	A	A	A	A	D	A	D	A	A
Ethylene Chlorohydrin	ClCH ₂ CH ₂ OH	1.204	3.4	D	B	B	B	B	D	B	A	A	A
Ethylene Cyanohydrin	HOCH ₂ CH ₂ CN	1.04		B	D	B	B		A	D	A	A	A
Ethylene Diamine	(CH ₂) ₂ (NH ₂) ₂	0.899	1.54	C	B	A	A	B	A	A	D	A	A
Ethylene Dichloride	CH ₂ ClCH ₂ Cl	1.25	0.83	D	D	A	A	B	C	C	A	A	A
Ethylene Glycol	(CH ₂ OH) ₂	1.15	2.18	A	B	B	B	B	A	A	A	A	A
Ethylene Glycol Acetate	CH ₂ OOCH ₂						A		D	A	D	A	A
Ethylene	H ₂ CCH ₂	0.610 @ 0°C		A	A	A	A	A	A	D	A	A	A
Fatty Acids				A	D	B	A	B	B	C	A	A	A
Ferric Chloride	FeCl ₃	2.8		D	D	D	D	D	D	D	A	A	D
Ferric Sulphate	Fe ₂ (SO ₄) ₃ •9H ₂ O	2.0-2.1		D	D	B	A	B	A	A	A	A	A
Ferrous Chloride	FeCl ₂ •4H ₂ O	1.93		D	D	D	D	D	A	A	A	A	D
Ferrous Sulphate	FeSO ₄ •7H ₂ O	1.89		D	D	B	A	A	A	A	A	A	A
Fertilizer Solutions	NH ₄ NO ₃ Phosphate KC ₄ NH ₄	0.811		D	A	A	A	A	A	A		A	A

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Fish Oil				C	B	A	A	A	A	D	A	A	A
Flexol Plasticizer	DoP			A	A	B	B	B	D	B	B	A	A
Formaldehyde 37%	HCHO	1.075		B	C	A	A	B	C	B	D	A	A
Formic Acid	HCOOH	1.22 @ 20°C		B	D	B	A	C	A	A		A	A
Freon - 11, 12	C Cl3F			B	B	A	A	A	B	D	B	A	A
Fruit Juices	Fructose			B	D	A	A	A	A	A	A	A	A
Fuel Oils #1 - #3		0.82-0.95	7 to 9	A	A	A	A	A	A	D	A	A	A
Fuel Oils #4 - #6		0.82-0.95	10 to 600	A	A	A	A	A	A	D	A	A	A
Furfural 25%	C4H3OCHO	1.15	1.49	B	B	B	B	B	D	B	D	A	A
Gallic Acid	C6H2(OH)3CO3H	1.69		B	D	B	B	B	B	B	A	A	A
Galuber's Salts	Sodium Sulfate	1.46		A	B	B	A	B	D	B	A	A	A
Gasoline	C6H14-C10H2	0.66-0.69		A	A	A	A	A	A	A	A	A	A
Glass Water	Sodium Silicate			D	B	B	B	B	A	A	A	A	A
Gluconic Acid	CH2OH(CHON)4COOH			B	A	B	B	B	A		A	A	A
Glucose	Corn Syrup			A	B	A	A	A	A	A	A	A	A
Glycerol (Glycerine)	C3H5(OH)3 Need 20% for 210	1.260	~100	A	B	A	A	A	A	A	A	A	A
Glycols	EthanedioI Need 20% for 210	1.11		B	B	A	A	B	A	A	A	A	A
Glyoxal	OHCCHO	1.26		B	B	A	A	A	A	A	A	A	A
Gypsum	CaSO4·2H2O	2.31		B	B	A	A	A	A	A	A	A	A
Hempseed Oil		0.925										A	A
Heptane	C7H16	0.683	0.409	A	A	A	A	A	A	D	A	A	A
Hexadecane	(Cetane) C16H34	0.773	3.30	A	A	A	A	A	A	D	A	A	A
Hexane	C6H14	0.659	0.326	A	A	A	A	A	A	D	A	A	A
Hexyl Alcohol	C6H13OH	0.818		A	A	A	A	A	A	D	A	A	A
Hexylene Glycol	C6H12(OH)2	0.921		A	A	A	A	A	A	A	A	A	A
Hydraulic Oil	Petroleum Based		~60	A	A	A	A	A	A	D	A	A	A
Hydriodic Acid	HI	1.70		D	D	B	B	B			A	A	A

Fluid Compatibility Guide

Chemicals	Formula/Notes	Specific Gravity (60° F)	Typical Viscosity (CPS)	Aluminum	Carbon Steel	304 SS	316 SS	440C SS	Buna-M	EPR	Viton	Teflon	Carbon
Hydrobromic Acid (48%)	HBr	1.488		D	D	D	D	D	D	A	A	A	A
Hydrochloric Acid - All Conc.'s	HCl	1.19		D	D	D	D	D	D	C	A	A	A
Hydrocyanic Acid	HCN	0.697		A	A	B	B	B	B	A	A	A	A
Hydrofluoric Acid	HF			D	D	D	D	D	D		B	D	A
Hydrogen Peroxide 30%	H2O2			D	D	A	A	B	B	A	A	A	A
Hydrogen Peroxide 70%	H2O2	1.46		D	D	A	A	A	D	C	A	A	A
Hydrogen Sulfide (Aqueous)	H2S	1.185		A	D	A	A	B	D	A	D	A	A
Hydrogen Sulfide (Non Aqueous)	H2S	1.185		A	D	A	A	B	A	A	D	A	A
Inks - Printers		1.00-1.38	500.0	B	D	B	A	B	A	B	A	A	A
Iron Potassium Sulfate	FeK(SO4)2•12H2O	1.80		A	D	B	B	B	A	A	A	A	A
Isobutane	(CH3)2CHCH3	0.564		A	A	A	A	A	A	D	A	A	A
Isobutanol	(CH3)2CHCH2OH	0.806	4.0	A	B	A	A	A	A	B	A	A	A
Isobutyl Acetate	C1H9OOCCH3	0.868	0.7	A	A	A	A	A	D	A	D	A	A
Isobutylamine	(CH3)2CHCH2NH2	0.731	0.55	A	B	A	A		C	D	D	A	A
Isodecanol	C10H21OH	0.839		A	A	A	A	A	A	D	A	A	A
Isohexanol	C6H13OH	0.818		A	A	A	A	A	A	D	A	A	A
Isooctane	C8H18	0.691		A	A	A	A	A	A	D	A	A	A
Isopentane	(CH3)2CHCH2CH3	0.619	0.22	A	A	A	A	A	A	D	A	A	A
Isopropanol	C3H7OH	0.786	2.10	A	B	A	A	B	B	A	A	A	A
Isopropyl Acetate	CH3COOCH(CH3)2	0.869	0.49	A	B	B	B	B	D	B	D	A	A
Isopropylamine	C3H7NH2	0.688		A	B	A	B	B		A		A	A
Isopropyl Ether	(CH3)2CHOCH(CH3)2	0.723	0.32	A	A	A	A	A	B	D	D	A	A
Isophorone	C9H14O	0.922	2.62	A	A	A	A	A	D	A	D	A	A
Isovaleric Acid	C5H9OOH	0.931								A		A	A
Jet Fuel	JP-4, JP-5, JP-6		1.20	A	A	A	A	A	A	D	A	A	A
Kerosene		0.802	6.00	A	B	A	A	A	A	D	A	A	A
Ketone, Butyl ethyl	C4H9COC2H5	0.819		A	A	A	A	A	D	A	D	A	A

Fluid Compatibility Guide

Chemicals	Formula/Notes	Specific Gravity (60° F)	Typical Viscosity (CPS)	Aluminum	Carbon Steel	304 SS	316 SS	440C SS	Buna-M	EPR	Viton	Teflon	Carbon
Ketone, Diethyl	(C ₂ H ₅) ₂ CO	0.816		A	A	A	A	A	D	A	D	A	A
Ketone, Di-Isopropyl	C ₄ H ₈ CO			A	A	A	A	A	D	A	D	A	A
Ketone, Methyl Ethyl (MEK)	CH ₃ COC ₂ H ₅	0.825	0.40	A	A	A	A	A	D	A	D	A	A
Ketone (MIBK)	C ₄ H ₉ COCH ₃	0.804	0.59	A	A	A	A	A	D	A	D	A	A
Lacquer		0.900		A	D	A	A	A	A		A	A	A
Lactic Acid	CH ₃ CHOHCOOH	1.2 @ 20°C		A	D	A	A	C	A	A	A	A	A
Lard Oil	Grease Oil	1.470		A	C	A	A	A	A	B	A	A	A
Latex Sol 70%	Ph 1.7	900.0			A	A	A	A		A	A	A	
Lauric Acid	CH ₃ (CH ₂) ₁₀ COOH	0.833		A	A	A	A	A	A		A	A	A
Lecithin		1.0	10,000	A	C	A	A	A	D	D	A	A	A
Ligroin	Petroleum Ether			A	A	A	A	A	A	D	A	A	A
Linoleic Acid	C ₁₀ H ₁₇ (CH ₂) ₇ COOH	0.905		A	B	A	A	B	B	D	B	A	A
Linolenic Acid	(C ₁₀ H ₁₅ CH ₂) ₇ COOH	0.916		A	B	A	A	B	B	D	B	A	A
Linseed Oil	Flaxseed Oil	0.931	0.33	A	B	A	A	B	A	D	A	A	A
Liquefied Petroleum Gas	L.P.G.			A	A	A	A	A	A	D	A	A	A
Liquid Feed	Morea	1.2	22.0			A	A	A	A		A	A	A
Magnesium Chloride (10%)	MgCl ₂ •6H ₂ O	1.56		D	B	A	A	C	A	A	A	A	A
Magnesium Hydroxide	Mg(OH) ₂	2.36		D	B	A	A	A	B	A	A	A	A
Magnesium Nitrate	Mg(NO ₃) ₂ •6H ₂ O	1.46		B	B	A	A	A	A	A	A	A	A
Magnesium Sulfate	Mg(SO ₄)•7H ₂ O	1.678		B	B	A	A	D	A	A	A	A	A
Maize Oil						A	A	A	A		A	A	A
Maleic Aid	(CHCOOH) ₂	1.59		B	B	A	A	B	D	D	A	A	A
Malonic Acid	CH ₂ (COOH) ₂	1.63				A	A					A	A
Menhaden Oil (10%)	Moss Bunker Oil	0.927-0.933	28.0		A	A					A	A	
Mercaptan, Ethyl	C ₂ H ₅ SH	0.839		B	D	B	B	B	D	D	A	A	A
Mercuric Chloride	HgCl ₂	5.32		D	D	D	D	D	A	A	A	A	A
Mesityl Oxide (Ketone)	(CH ₃) ₂ C ₃ HOCH ₃	0.863	0.60	B	A	B	B	B	D	B	D	A	A

Fluid Compatibility Guide

Chemicals	Formula/Notes	Specific Gravity (60° F)	Typical Viscosity (CPS)	Aluminum	Carbon Steel	304 SS	316 SS	440C SS	Buna-M	EPR	Viton	Teflon	Carbon
Methane	CH ₄	0.554		A	A	A	A	A	A	D	A	A	A
Methyl Acetate	CH ₃ COOCH ₃	0.924	0.38	A	B	B	B	B	D	B	D	A	A
Methyl Acrylate	C ₃ H ₃ OOCH ₃	0.957		A	A	A	A	A	D	B	D	A	A
Methyl Amine	CH ₃ NH ₂	0.23		B	B	B	B	B	D	A	D	A	A
Methyl Amyl Acetate	C ₈ H ₁₆ O ₂	0.859		A	B	B	B	B		A	D	A	A
Methyl Amyl Alcohol	C ₆ H ₁₃ OH	0.807		A	B	A	A	A		A		A	A
Methyl Aniline	C ₆ H ₆ NH(CH ₃)	0.991	2.02	B	A	B	B	B	D	A	D	A	A
Methyl Cellosolve	CH ₂ OCH ₂ CH ₂ OH			A	B	A	A	A	C	B	D		A
Methyl Cyclohexane	C ₇ H ₁₄	0.769		A	A	A	A	A	D	A	A	A	A
Methyl Cyclo Hexanol	CH ₃ C ₆ H ₁₁ OH			A	B	A	A	A	A	D	A	A	A
Methyl Glycol Acetate				A	A	A	A	A	D	A	D	A	A
Methyl Methacrylate	CH ₂ C(CH ₃)COOCH ₃	0.940		A	A	A	A	A	D	D	D	A	A
Methyl Pyrrolidone	CH ₃ NC ₃ H ₆ CO			D	A	A	A	A	D	A	D	A	A
Methyl Salicylate	C ₆ H ₄ OHCOOCH ₃	1.180				A	A	A	D	B	C	A	A
Methylene Chloride	CH ₂ Cl ₂ (ok in 210's)	1.33	0.42	D	B	B	B	B	D	D	B	A	A
Methylene Dichloride				C	B	B	B	B	D	D	B	A	A
Methylene Glycol	CH ₂ (OH) ₂			B	B	A	A	A	A	D	A	A	A
MIBK (see Ketone)													
Milk	Lactic Acid	1.028-1.035	1.16	A	D	A	A	A	A	A	A	A	A
Mineral Spirits	Naphtha			A	B	B	B		A	D	A	A	A
Molasses (Crude)	Mother Liquor	1.40-1.46	151.5	A	A	A	A	A	A	A	A	A	A
Molasses (Edible)	Blackstrap	1.46-1.49	1,320.0	A	A	A	A	A	A	A	A	A	A
Monochlorobenzene	C ₆ H ₅ CL	1.105		B	B	B	B	B	D	D	A	A	A
Monoethanolamine				D	A	A	A	A	D	B	D	A	A
Muriatic Acid	Hydrochloric			D	D	D	D	D	D	C	A	A	A
Myristic Acid	CH ₃ (CH ₂) ₁₂ COOH	0.873		A	A	A	A	A				A	A
Naphtha (Aliphatic)		0.665		A	A	B	B	B	A	D	A	A	A

Fluid Compatibility Guide

Chemicals	Formula/Notes	Specific Gravity (60° F)	Typical Viscosity (CPS)	Aluminum	Carbon Steel	304 SS	316 SS	440C SS	Buna-M	EPR	Viton	Teflon	Carbon
Naphtha (Aromatic)		0.885-0.970		A	A	B	B	B	B	D	A	A	A
Naphtha (V.M. & P.)				A	A	B	B	B	B	D	A	A	A
Neatsfoot Oil		0.916				A	A	A	A	B	A	A	A
Nickel Ammonium Sulfate 10%	NiSO ₄ •(NH ₄) ₂ •6H ₂ O	1.92		D	D			D	A	A	A	A	A
Nickel Chloride 37%	NiCl ₂ •6H ₂ O	1.35		D	D	D	B	D	A	A	A	A	A
Nickel Sulfate 25%	NiSO ₄ •6H ₂ O	1.20		D	D	A	A	A	A	A	A	A	A
Nitric Acid 10%	HNO ₃	1.074		B	D	A	A	B	D	D	A	A	A
Nitric Acid 30%	HNO ₃	1.186		D	D	A	A	B	D	D	A	A	A
Nitric Acid 50%	HNO ₃	1.318	0.76	D	D	A	A	B	D	D	B	A	A
Nitric Acid 70%	HNO ₃	1.421		D	D	A	A	B	D	D	B	A	A
Nitric Acid 100%	HNO ₃	1.502		A	D	A	A	D	D	D	B	A	A
Nitro Benzene	C ₆ H ₅ NO ₂	1.198		B	A	B	B	B	D	D	B	A	A
Nitrocumene	C ₆ H ₄ CH(CH ₃) ₂ NO ₂			C	B	B	B	B	B	C	D	A	A
Nitro Ethane	C ₂ H ₅ NO ₂	1.052		A	A	A	A	A	D	B		A	A
Nitro Fluorobenzene	C ₆ H ₄ NO ₂ FL		2.0 C		B	B	B	B	B	C	D	A	A
Nitro Propane	C ₃ H ₇ NO ₂	1.003		A	A	A	A	A	D	B	D	A	A
Nonenes	C ₉ H ₁₈	0.743		A	A	A	A	A	A	D	A	A	A
N. Octane	C ₈ H ₁₈	0.702	0.54	A	A	A	A	A	B	D	A	A	A
Oleic Acid 40%	CH ₃ (CH ₂) ₁₄ C ₂ H ₂	0.890		D	D	A	A	B	C	D	B	A	A
Olive Oil	Sweet Oil	0.910	84.0	A	B	A	A	A	A	B	A	A	A
Oil - Lube			113.0	A	A	A	A	A	A	D	A	A	A
Oil - Mineral				A	B	A	A	A	A	D	A	A	A
Oil - Petroleum				A	A	A	A	A	A	D	A	A	A
Oil - Water Emul.				A	B	A	A	A	A	D	A	A	A
Ortho-Dicloro-Benzene	C ₆ H ₄ CL ₂	1.305		B	B	B	B	B	D	D	A	A	A
Oxalic Acid 50%	(COOH) ₂	1.653		D	B	A	A	B	B	A	A	A	A
Palm Oil		0.924 @ 100°	44.0	A	C	B	B	B	A	C	A	A	A

Fluid Compatibility Guide

Chemicals	Formula/Notes	Specific Gravity (60° F)	Typical Viscosity (CPS)	Aluminum	Carbon Steel	304 SS	316 SS	440C SS	Buna-M	EPR	Viton	Teflon	Carbon
Palmitic Acid	CH ₃ (CH ₂) ₁₄ COOH	0.841		B	C	B	B	B	A	D	A	A	A
Paradyne				A	A	A	A	A	A	D	A	A	A
Paraffin		0.83-0.93		A	B	A	A	A	A	B	A	A	A
Para Tert-Amyl Phenol	(CH ₃) ₂ C ₂ H ₅ CC ₆ H ₄ OH	0.955		A	B	A	A	A	D	A	A	A	A
Para Tert-Butyl Phenol	(CH ₃) ₃ CC ₆ H ₄ OH	1.03		D	A	A	A	A	A		A	A	A
Paratex	Water Softner			D	A	A	A	A	A		A	A	A
Parathion	C ₁₀ H ₁₄ N ₀₅ PS					A	A	A	A		A	A	A
Peanut Oil		0.920 @ 100°	38.0	A	C	B	B	B	A	C	A	A	A
Pear Oil	Amyl Acetate	0.879	0.89	A	C	B	B	B	D	A	D	A	A
Pentane	C ₅ H ₁₂	0.626		A	B	B	B	B	A	D	A	A	A
Perchloroethylene	C ₂ Cl ₄	1.65	0.84	B	A	A	A	A	B	D	A	A	A
Perilla Oil		0.932		A	B	A	A	B	A	A	A	A	A
Petroleum Ether	Ligroin	0.665		A	A	A	A	A	A	D	A	A	A
Petroleum Spirits	Naphtha			A	A	A	A	A	A	D	A	A	A
Phenol 20%	C ₆ H ₅ OH	1.07	12.7A		B	A	A	B	D	A	A	A	A
Phenolic Resins				A	C	A	A	A	A	B	A	A	A
Phosphoric Acid 10%	H ₃ PO ₄	1.053		D	D	B	B	B	D	D	A	A	A
Phosphoric Acid 25%	H ₃ PO ₄	1.152		D	D	B	B	D	D	D	A	A	A
Phosphoric Acid 75%	H ₃ PO ₄	1.579		D	D	D	B	D	D	D	A	A	A
Phthalic Acid	C ₆ H ₄ (CO ₂ H) ₂	1.58		B	D	B	B	B	C	C	A	A	A
Phthalic Anhydride	C ₆ H ₄ (CO) ₂ O	1.527		B	D	B	B	B	C	C	A	A	A
Picric Acid	C ₆ H ₂ (NO ₂) ₃ OH	1.76		C		A	A		A	A	A	A	A
Polyester Resin				D	A	A	A	A	A	D	A	A	A
Polyethylene Glycol	H(OC ₂ H ₄)NOH			A	B	B	B	B	A	A	A	A	A
Polymerized Gasoline				A	A	A	A	A	A	D	A	A	A
Polypropylene Glycol	CH ₃ CHOH(CH ₂ CH ₂ CH ₂) _n •CH ₂ OH			A	B	B	B	B	A	A	A	A	A
Polyvinyl Acetate	(H ₂ C ₂ HOOC ₂ H ₃)	1.19		A	B	A	A	A		A		A	A

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Polyvinyl Acetate Emulsion	PVAc+H2O			A	B	A	A	A		A		A	A
Polyvinyl Alcohol	(CH2CHOH)x	1.98	2000.0	A	A	A	A	A	A		A	A	A
Potassium Aluminum Sulfate	AlK(SO4)2•12H2O	1.75		B	C	A	A	B	A	A	A	A	A
Potassium Chloride	KCL	1.98		D	C	A	A	B	A	A	A	A	D
Potassium Cyanide 25%	KCN	1.52		D	B	A	A	B	A	A	A	A	A
Potassium Hydroxide 25%	KOH	2.044		D	B	B	B	B	B	A	D	A	A
Potassium Hydroxide	KOH			D	D	A	A	A	B	A	D	A	A
Potassium Sulfate	K2SO4	2.66		B	B	B	B	B	A	A	A	A	A
Potassium Sulfide	K2S	1.80		B	D	B	B	B	A	A	A	A	A
Potash (Aqueous)	K2CO3	2.33		C	A	A	A	B	A	A	A	A	A
Propane	C2H8	0.531		A	A	A	A	A	A	D	A	A	A
Propionic Acid 20%	CH3CH2CO2H	0.994		B	D	B	B	D		A		A	A
Propylene	C3H7	0.513		A	A	A	A	A	D	D	A	A	A
Propylene Diamine	C3H6(NH2)2	0.873	1.70	B	B	A	A		D	D	D	A	A
Propylene Glycol	C3H6(OH)2	1.038	58.0	A	B	B	B	B	A	A	A	A	A
Propylene Oxide	C3H6O	0.830		B	B	A	A	B	D	B	D	A	A
Prussic Acid	HCN	0.697		A	A	B	B	B	B	A	A	A	A
Pyridine	N(CH)4CH	0.978		A	B	A	A	B	D	B	D	A	A
Pyrogalllic Acid	C6H2(OH)3	1.463		B	D	B	B	B	B	B	A	A	A
Pyrrolidine	C4H9N	0.866		B	B	A	A	B	D	A	D	A	A
Rayon (Spun Viscose)				B	B	A	A	B		A		A	A
Raffinate				A	A	A	A	A	A		A	A	A
Resins & Rosins				B	C	B	B	B	A		A	A	A
Ricinoleic Acid	C18H32O(OH)2	0.940		B	A	A	A	A				A	A
Rotograve - Ink				D	A	A	A	A	D	D	A	A	A
Rubber Solvent				A	A	A	A	A	D		A	A	A
Salicylic Acid	C6H4(OH)(COOH)	1.48	2.71	C	D	A	A	B	B	A	A	A	A
Shellac				A	A	A	A	A			A	A	A

Fluid Compatibility Guide

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Shortening						A	A	A	A		A	A	A
Skydrol		0.9-1.06	11	A	A	A	A	A	D	A	D	A	
Soap Solutions 0-20%	Stearates			C	A	A	A	A	A	A	A	A	A
Sodium Aluminate	Na ₂ Al ₂ O ₄			C	C	B	A	B	A	A	A	A	A
Sodium Bicarbonate 50%	NaHCO ₃	1.019-1.108		D	B	A	A	B	A	A	A	A	A
Sodium Carbonate 0-20%		1.146		D	B	A	A	A	A	A	A	A	A
Sodium Chloride 30%	NaCl	1.012-1.164		D	B	A	A	A	A	A	A	A	A
Sodium Chromate	NaCrO ₄	1.261		B	B	B	B	B	A	A	A	A	D
Sodium Cyanide	NaCn			D	D	A	A	B	A	A		A	A
Sodium Hydroxide 20%	NaOH	1.219		D	A	A	A	A	B	A	B	A	A
Sodium Hydroxide 30%	Caustic	1.262		D	A	A	A	A	B	A	B	A	A
Sodium Hydroxide 50%	Soda	1.525		D	B	B	B	B	B	A	B	A	A
Sodium Hydroxide 70%	Soda	1.788		D	D	B	B	B	B	A	B	A	A
Sodium Hypochlorite 5%	NaOCl			D	D	D	D	D	B	B	A	A	A
Sodium Meta Phosphate	NaPO ₃			D	D	B	B	B	A	A	A	A	A
Sodium Metasilicate	Na ₂ SiO ₃	2.61		D	B	A	A	A	A	A	A	A	A
Sodium Monochloro Acetic Acid	NaCH ₃ COOCL	1.328		D	D	A	A	A	D	D	A	A	A
Sodium Nitrate	NaNO ₃	1.36		A	B	A	A	B	B	A	A	A	A
Sodium Perborate 10%	NaBO ₂			D	B	B	B	B	B	A	A	A	A
Sodium Peroxide 10%	Na ₂ O ₂	2.80		C	B	A	A	B	B	A	A	A	A
Sodium Phosphate 5%	Na ₂ HPO ₄	1.52		D	B	B	B	B	A	A	A	A	A
Sodium Silicate	Na ₂ O•SiO ₂	1.56		D	B	B	B	B	A	A	A	A	A
Sodium Sulfate 0-50%	Na ₂ SO ₄	1.047		A	B	B	A	A	A	A	A	A	A
Sodium Sulfide	Na ₂ S•5H ₂ O	1.02-1.36		D	C	B	B	B	A	A	A	A	A
Sodium Thiosulfate 25%	Na ₂ S ₂ O ₃	1.232		A	D	B	B	B	B	A	A	A	A
Sodium Xylene Sulfonate	(CH ₃) ₂ C ₆ H ₃ SO ₃ Na•H ₂ O			A	A	A	A	A	D	D	A	A	A
Solvesso - 100-150	Aromatic Solvents	0.889	1.17	A	A	A	A	A	C	D	A	A	A

Fluid Compatibility Guide

Chemicals	Formula/Notes	Specific Gravity (60° F)	Typical Viscosity (CPS)	Aluminum	Carbon Steel	304 SS	316 SS	440C SS	Buna-M	EPR	Viton	Teflon	Carbon
Soups						A	A					A	A
Soybean Oil		0.924	40.6	B	D	A	A	A	A	D	A	A	A
Sperm Oil		0.878	42.0	A	A					A	A		
Stannic Chloride	SnCl ₄	1.21		D	D	D	D	D	A	A	A	A	A
Stannous Chloride	SnCl ₂	2.71		D	D	D	D	D	A	A	A	A	A
Starch	(C ₆ H ₁₀ O ₅) _N	1.5		B	A	A	A	A		B	A	A	A
Steam Condensate				A	A	A	A	A	D	A	C	A	A
Stearic Acid	CH ₃ (CH ₂) ₁₀ CO ₂ H	0.839		B	C	A	A	B	B	B	A	A	A
Stoddard's Solvent		0.780		A	A	A	A	A	A	D	A	A	A
Styrene	C ₆ H ₅ CHCH ₂	0.904		A	A	A	A	A	D	D	B	A	A
Sugar Solutions	Glucose	2.8 x 10 ⁶		A	B	A	A	A	A	A	A	A	A
Sulfate Liquors				D	B	B	A	B	B	A	A	A	A
Sulfonic Acid	C ₆ H ₅ HSO ₄			D	D	B	B	B				A	A
Sulfur	S	2.06	10.94 @ 120°C	A	A	A	A	B	D	D	C	A	A
Sulfur Dioxide	SO ₂			B	B	B	B	D	D	B	A	A	A
Sulfuric Acid 0-7%	H ₂ SO ₄	1.074		D	D	D	B	D	D	D	A	A	A
Sulfuric Acid 30%	H ₂ SO ₄	1.228		D	D	D	D	D	D	D	A	A	A
Sulfuric Acid 50%	H ₂ SO ₄	1.407		D	D	D	D	D	D	D	A	A	A
Sulfuric Acid 85%	H ₂ SO ₄	1.790		D	B	B	A	D	D	D	A	A	A
Sulfuric Acid 93%	H ₂ SO ₄	1.835	23.0	D	B	B	A	C	D	D	A	A	A
Sulfurized Oil				B	B	B	B	B	D	D	D	A	A
Tall Oil	Liquid Rosin			D	B	B	B	B	B	D	A	A	A
Tallow Oil				B	A	A	A	A	A		A	A	A
Tar Oil	Creosote	1.04-1.10	12.0	B	B	A	A	A	A	D	A	A	A
Tannic Acid 10%	C ₁₄ H ₁₀ O ₉	1.04		C	C	A	A	B	A	A	A	A	A
Tergitol Nonionic NPX	Phenyl Ether	1.063	396		D	A	A	A				A	A
Tetrahydrofuran	C ₄ H ₈ O	0.880		A	A	A	A	A	D	A	D	A	A

Fluid Compatibility Guide

Chemicals	Formula/Notes	Specific Gravity (60° F)	Typical Viscosity (CPS)	Aluminum	Carbon Steel	304 SS	316 SS	440C SS	Buna-M	EPR	Viton	Teflon	Carbon
Tetramethylbenzene	(CH ₃) ₄ C ₆ H ₂	0.896		A	A	A	A	A	A		A	A	A
Tetrapropylene	C ₁₂ H ₂₄	0.770		A	A	A	A	A	A	D	A	A	A
Textile Spirits		0.689		A	A	A	A	A	A	D	A	A	A
Titanium Sulfate 10%	(TiSO ₄) ₂ •9H ₂ O	1.47		D	D	B	B	D					A
Toluene	C ₆ H ₅ CH ₃	0.866	0.59	A	A	A	A	A	D	D	A	A	A
Toluene Diisocyanate	CH ₃ C ₆ H ₃ (NCO) ₂	1.22	38-750 SSU	D	A	A	A	A	D	A	B	A	A
Tomato Paste				B	C	A	A	A	D	A	D	A	A
Tri-Chloro-Acetic Acid	CCl ₃ COOH	1.62		D	D	D	D	D	B	B	C	A	A
Trichloro Ethane (Dry)	C ₂ H ₃ Cl ₃	1.44	1.20	A	A	A	A	A	D	D	A	A	A
Trichloroethylene	C ₂ HCl ₃	1.45	0.55	A	B	B	B	B	D	D	A	A	A
Triclene D	Trichloroethylene	1.45	0.55	A	B	B	B	B	D	D	A	A	A
Tri-Decyl Alcohol	C ₁₂ H ₂₆ CH ₂ OH	0.845		A	A	A	A	A	D	D	A	A	A
Triethanol Amine	(HOCH ₂ CH ₂) ₃ N	1.12	100	A	A	A	A	A	B	B	D	A	A
Triethylene Glycol	HO(C ₂ H ₄ O) ₃ H	1.12	0.47	A	A	A	A	A	A	A	A	A	A
Trimethylamine	(CH ₃) ₃ N	0.662		A	A	A	A	A	B	A	D	A	A
Triethylene Tetraamine	Na ₃ PO ₄ •10H ₂ O	2.53		D	A	A	A	A	A	A	A	A	A
Trisodium Phosphate	Na ₃ PO ₄ •10H ₂ O	2.53		D	A	A	A	A	A	A	A	A	A
Triton X-100	Surfactant	34.0		A	A	A	A	B	A		A	A	A
Tuna Fish Oil				B	B	A	A	A	A		A	A	A
Tung Oil	Wood Oil	0.936		B	B	A	A	A	A	D	A	A	A
Turpentine	C ₁₀ H ₁₆	0.87	1.48	A	B	A	A	A	A	D	A	A	A
Urea	CO(NH ₂) ₂	1.335		B	C	B	B	B	A	B		A	A
Urea Formaldehyde				D	A	A	A	A	A		A	A	A
Uran-Poly-N	Fertilizer			D	A	A	A	A	A		A	A	A
Varnish	Spar	0.900	281.0	A	C	A	A	A	B	D	A	A	A
Vegetable Oil				A	B	A	A	B	A	A	A	A	A
Vinegar	4% Acetic Acid	1.04		C	D	A	A	D	B	A	A	A	A

Fluid Compatibility Guide

Chemicals	Formula/Notes	Specific Gravity (60° F)	Typical Viscosity (CPS)	Aluminum	Carbon Steel	304 SS	316 SS	440C SS	Buna-M	EPR	Viton	Teflon	Carbon
Vinyl Acetate	CH ₃ COOCHCH ₂	0.933		D	A	A	A	A	A	A	D	A	A
Vinyl Chloride	CH ₂ CHCl	0.912		D	A	A	A	A			A	A	A
Water - Distilled	H ₂ O	1.00		A	D	A	A	A	A	A	D	A	A
Water - Fresh	H ₂ O	1.00		A	C	A	A	A	A	A	D	A	A
Water - Sea	H ₂ O	1.025		B	D	A	A	C	A	A	D	A	A
Whiskey & Wine				D	D	A	A	A	A	A	A	A	A
Xylene	C ₆ H ₄ (CH ₃) ₂	0.868	0.620	A	A	A	A	A	D	D	A	A	A
Zeolites	Hydrated Silicates			D	A	A	A	A	A	A	A	A	A
Zinc Chloride	ZnCl ₂	2.91		D	D	D	D	D	A	A	A	A	A
Zinc Sulfate	ZnSO ₄	1.966		D	B	A	A	C	A	A	A	A	A