



A - Excellent    B - Good    C - Poor  
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		A	A	Aluminum	Bronze	Cast Iron	Tungsten Carb.	Carbon Steel	304SS-17-4PhSS	316 SS	440CSS	Buna-N	EPR	Viton	Teflon	Ryton	Carbon	Peek	Hastelloy C-276	Chemraz
Acetaldehyde	CH <sub>3</sub> CHO	0.783	0.22	B	D	C	A	C	A	A	A	A	A	D	A	A	A	A	D	
Acetates	(CH <sub>3</sub> COO-)			A	A	B	A	B	A	A	A	D	A	D	A	A	A	A	A	
Acetic Acid (50%)	CH <sub>3</sub> COOH	1.057	1.22	C	D	D	C	D	A	A	D	B	B	D	A	A	A	A	A	
Acetic Acid (Glacial)	CH <sub>3</sub> COOH	1.049		A	B	D	C	D	A	A	B	B	B	D	A	A	A	A	A	
Acetic Anhydride	(CH <sub>3</sub> CO) <sub>2</sub> O	1.083	0.90	B	C	D	A	D	B	B	C	D	B	D	A	A	A	D	A	
Acetone	CH <sub>3</sub> COCH <sub>3</sub>	0.797	0.31	B	A	A	A	A	B	B	B	D	A	D	A	A	A	A	A	
Acrylic Emulsions				B	B	C	A	C	A	A	A	A	A	A	A	A	A	A	A	
Acrylonitrile	H <sub>2</sub> CCHCN	0.800		B	A	C	A	A	A	A	A	D	D	C	A	A	A	A	Note 1	
Alcohol-Allyl	CH <sub>2</sub> CHCH <sub>2</sub> OH	0.852	1.36	B	B	B	A	B	B	B	B	A			A	A	A	A	Note 1	
Alcohol-Amyl	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> CH <sub>2</sub> OH	0.817	4.65	A	B	B	A	B	A	A	B	B	A	B	A	A	A	B	A	
Alcohol-Butyl	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>2</sub> OH (Butanol)	0.810	2.94	A	B	B	A	B	A	A	B	A	B	A	A	A	A	A	A	
Alcohol-Diacetone	CH <sub>3</sub> COCH <sub>2</sub> C(CH <sub>3</sub> ) <sub>2</sub> OH	0.940	3.20	A	B	B	A	B	A	A	B	D	A	D	A	A	A	A	A	
Alcohol-Ethyl	C <sub>2</sub> H <sub>5</sub> OH	0.804	1.20	B	B	B	A	B	A	A	B	A	C	A	A	A	A	A	A	
Alcohol-Furfuryl	C <sub>4</sub> H <sub>9</sub> OCH <sub>2</sub> OH	1.128		B	B	B	A	B	B	B	B	D	B	C	A	A	A	A	A	
Alcohol-Isopropyl	(CH <sub>3</sub> ) <sub>2</sub> CHOH	0.786		B	B	B	A	B	B	B	B	B	A	A	A	A	A	A	A	
Alcohol-Methyl	CH <sub>3</sub> OH	0.792	0.59	D	B	B	A	B	A	A	B	A	A	D	A	A	A	A	Note 1	
Aliphatic Solvents				A	A	A	A	A	A	A	A	D	A	A	A	A	A	A		
Alkyd Resin				B	B	C	A	C	A	A	A	A	A	D	A	A	A	A	Viscosity Prime Factor	
Alkyl Benzene	C <sub>2</sub> H <sub>5</sub> -C <sub>6</sub> H <sub>6</sub>			B	B	A	A	A	A	A	A	D	D	A	A	A	A	A	A	
Allyl Chloride	CH <sub>2</sub> CHCH <sub>2</sub> CL	0.938		D	B	B	B	B	B	B	B	A			A	A	A	A	A	
AluminumAmmonium Sulfate (Alum.)	AlNH <sub>4</sub> (SO <sub>4</sub> ) <sub>2</sub>	1.645		D	D	D	D	D	B	A	D	A	A	A	A	A	A	A	A	
Aluminum Chloride (10%)	AlCl <sub>3</sub> ·6H <sub>2</sub> O	1.07		D	D	D	D	D	B	A	D	A	A	A	A	A	A	B	A	
AluminumSodium																				
Sulfate (Aq.)	AL <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·Na <sub>2</sub> SO <sub>4</sub> ·24H <sub>2</sub> O	1.67		D	D	D	D	D	B	A	D	A	A	A	A	A	A	A	A	
Amines	(NH <sub>3</sub> )			C	D	B	A	B	A	A	B	B	D	A	A	A	A	A	Note 1	
Ammonia (Anh.)	NH <sub>3</sub>	0.77	0.25	B	D	B	B	A	A	A	B	A	D	A	A	A	A	A	Note 1	
Ammonia Solutions	NH <sub>4</sub>		@ -33°F	B	D	B	B	A	A	A	B	A	D	A	A	A	A	A	Note 1	
Ammonium Carbonate	NH <sub>4</sub> HCO <sub>3</sub>			B	D	B	B	B	B	B	B	A	A	A	A	A	A	A	Note 1	
Ammonium Chloride (0-24%)	NH <sub>4</sub> Cl	1.04-1.06		C	D	B	B	B	A	A	B	A	A		A	A	A	A		
AmmoniumHydroxide (28%)	NH <sub>4</sub> OH	0.900		C	D	B	B	B	B	B	B	C	A	D	A	A	A	A	Note 1	
AmmoniumHydroxide (34%)	NH <sub>4</sub> OH	0.882		C	D	B	B	B	B	B	B	D	A	D	A	A	A	A	Note 1	
Ammonium Nitrate (8-42%)	NH <sub>4</sub> NO <sub>3</sub>	1.03		B	D	D	B	D	A	A	A	A	B	A	A	A	A	A		
Ammonium Phosphate	(NH <sub>4</sub> ) <sub>3</sub> HPO <sub>4</sub>	1.61		B	D	D	B	D	A	A	A	A	A		A	A	A	A	Note 1	
Ammonium Sulfate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	1.28		C	B	C	B	C	A	A	B	A	A	D	A	A	A	A	Note 1	
Amyl Acetate	CH <sub>3</sub> CO <sub>2</sub> C <sub>5</sub> H <sub>11</sub>	0.879	0.89	B	B	C	A	C	A	A	D	A	D		A	A	A	A		
Aniline	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub>	1.023	4.40	C	C	C	A	C	A	A	B	D	B	C	A	A	A	A	Note 1	
Anionic Detergents				A	A	A	A	A	A	A	A	D	A	A	A	A	A	A		
Antimony Trichloride	SbCl <sub>3</sub>	3.14		D	D	D	D	D	D	D	D			A		A	A	A		
Asphalt @ 450°F	Bitumens		2,000 SSU	C	A	A	B	A	A	A	D	D	C	A	A	A	A	A	Ventilated Ext.	
Barium Carbonate	BaCO <sub>3</sub>	3.85		B	B	B	B	B	B	B	B	A	A	A	A	A	A	A		
Barium Chloride (26%)	BaCl <sub>2</sub> ·2H <sub>2</sub> O	1.27		D	B	C	C	C	C	B	A	A	A	A	A	A	A	A	Note 1	
Barium Hydroxide	Ba(OH) <sub>2</sub>	1.656		D	B	B	B	B	B	A	B	A	A	A	A	A	A	A	Note 1	
Barium Sulfate	BaSO <sub>4</sub>	4.25		D	C	C	B	C	B	B	B	A	A	A	A	A	A	A		

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Chemicals	Formula	Sp. Gr. (60°F)	Typical (60°F) Viscosity (CPS)	Aluminum	Bronze	Cast Iron	Tungsten Carb.	Carbon Steel	304SS-17-4PhSS	316 SS	440CSS	Buna-N	EPR	Viton	Teflon	Ryton	Carbon	Peek	Hastelloy	C-276	Chemraz	Remarks
Barium Sulfide	BaS	4.25		D	C	C	B	C	B	B	B	A	A	A	A	A	A	A	A	A		
Beef Tallow				D	D	B	A	B	A	A	A	A	B	A	A	A	A	A	A	A	Steam Clean	
Beer				A	B	C	A	C	A	A	A	A	A	A	A	A	A	A	A	A	SS Meter Preferred	
Beet Sugar Liquors	Sucrose			A	A	B	A	B	A	A		A	A	A	A	A	A	A	A	A		
Benzaldehyde				A	A	A	A	A	A	A				A	A	A	A	A	A	A		
Benzene	C <sub>6</sub> H <sub>6</sub>	0.879	0.652	B	B	B	A	B	B	B	B	D	D	A	A	A	A	A	A	A		
Benzoic Acid	C <sub>6</sub> H <sub>5</sub> COOH	1.265		B	B	D	B	D	B	B	B	D	D	A	A	A	A	A	A	A		
Benzyl Alcohol	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> OH	1.040		B	B	A	A	B	B	B	B	D	B	A	A	A	A	A	A	A		
Boric Acid	H <sub>3</sub> BO <sub>3</sub>	1.434		B	B	D	B	D	A	A	B	A	A	A	A	A	A	A	A	A		
Butadiene	C <sub>4</sub> H <sub>6</sub>	0.621		A	C	B	A	B	A	A	A			A	A	A	A	A	A	A	Note 2	
Butane	C <sub>4</sub> H <sub>10</sub>	0.599		A	A	B	A	B	A	A	A	A	D	A	A	A	A	A	A	A	Note 2	
Butyl Acetate	CH <sub>3</sub> COOC <sub>4</sub> H <sub>9</sub>	0.875	0.732	B	B	A	A	B	B	B	B	D	B	D	A	A	A	A	A	A		
Butylene	C <sub>4</sub> H <sub>8</sub>	0.595		A	A	A	A	A	A	A	A	B	D	A	A	A	A	A	A	A	Note 2	
Butylene Glycol	HOCH <sub>2</sub> CH <sub>2</sub> CH(OH)CH <sub>3</sub>	1.00		A	A	A	A	A	A	A	A			A	A	A	A	A	A	A		
Butylethyl Ketone	C <sub>4</sub> H <sub>9</sub> COC <sub>2</sub> H <sub>5</sub>	0.819		A	A	A	A	A	A	A	A	D	A	D	A	A	A	A	A	A		
Butyraldehyde	CH <sub>3</sub> (CH <sub>2</sub> )CHO	0.804	0.43	A	A	A	A	A	A	A	A	D	B	D	A	A	A	A	A	B		
Butycellosolve	CH <sub>2</sub> OHCH <sub>2</sub> OC <sub>4</sub> H <sub>9</sub>	0.901	6.40	A	A	A	A	A	A	A	A	D	B	D	A	A	A	A	A	A		
Butyric Acid	C <sub>4</sub> H <sub>2</sub> OOH	0.958	1.61	B	C	D	B	D	B	B	C	D	B	B	A	A	A	A	A	A		
Buttermilk				A	D	D	B	D	A	A	A	A	A	A	A	A	A	A	A	A		
Bunker Oils				A	B	B	A	A	A	A	A	A	D	A	A	A	A	A	A	A		
Calcium Chloride (38%)	CaCl·6H <sub>2</sub> O	1.33		D	B	D	B	D	B	B	C	A	A	A	A	A	A	A	A	Note 1		
Calcium Hydroxide	Ca(OH) <sub>2</sub>	2.34		D	C	C	B	C	B	B	B	A	A	A	A	A	A	A	A	A		
Calcium Hypochlorite (Aq.)	Ca(OCl) <sub>2</sub>			C	D	D	C	D	C	C	C	B	A	A	A	D	A	D	C	A	Hastelloy C	
Calcium Nitrate (Aq.)	Ca(NO <sub>3</sub> ) <sub>2</sub> ·4H <sub>2</sub> O	1.82		D	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	Note 1	
Calcium Sulfate (10%)	CaSO <sub>4</sub>	2.45	14 CPS	B	B	B	B	B	A	A	A	B	A	A	A	A	A	A	B	A	Note 1	
Camphene	C <sub>10</sub> H <sub>16</sub>	0.833		B	B	B	B	B	B	B	B	B	A	D	A	A	A	A	A	A		
Carboxlic Acid (20%)	Phenol	1.07	65 SSU	A	A	D	B	D	A	A	B	D	B	A	A	A	A	A	A	A	Note 3	
Capric Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>8</sub> COOH	0.885 @ 40°C		B	B	B	C	B	C	A	B	B	C	A	A	A	A	A	A	A		
Caproic Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> COOH	0.927 @ 20°C	3.10	A	C	D	B	D	A	A	B	B	C	A	A	A	A	A	A	A	Fatty Acid	
Caprylic Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>6</sub> COOH	0.915 @ 20°C		A	C	D	B	D	A	A	B	B	C	A	A	A	A	A	A	A	Fatty Acid	
Carbitol	C <sub>4</sub> H <sub>9</sub> OC <sub>2</sub> H <sub>4</sub> OC <sub>2</sub> H <sub>4</sub> OH	0.953	6.40	A	A	A	A	A	A	A	A	B	B	B	A	A	A	A	A	A		
Carbitol Acetate	CH <sub>3</sub> COOC <sub>2</sub> H <sub>4</sub> OC <sub>2</sub> H <sub>4</sub> OC <sub>2</sub> H <sub>5</sub>	1.01	2.70	A	A	A	A	A	A	A	A	D	B	D	A	A	A	A	A	A		
Carbon Dioxide	CO <sub>2</sub>	1.10 @ -37°C		A	A	A	A	A	A	A	A	A	B	B	A	A	A	A	A	A	Note 2	
Carbonic Acid	H <sub>2</sub> CO <sub>3</sub>	2.44		A	D	C	A	A	A	A	A	B	A	A	A	A	A	A	A	A	Exists Only in Solid	
Carbon Tetrachloride (Dry)	CCl <sub>4</sub>	1.59	1.03	C	C	C	A	C	A	A	C	B	D	A	A	A	A	A	A	A		
Carbon Disulphide	CS <sub>2</sub>	1.26	0.36	A	C	B	B	A	A	B	A	D	A	A	A	A	A	A	A	A	Note 1	
Castor Oil		0.969	98.0	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A		
Cellosolve	HOC <sub>2</sub> H <sub>4</sub> OC <sub>4</sub> H <sub>9</sub>	0.901	6.40	A	A	A	A	A	A	A	A	D	B	D	A	A	A	A	A	A		
Cellosolve Acetate	CH <sub>3</sub> COOC <sub>2</sub> H <sub>4</sub> OC <sub>2</sub> H <sub>5</sub>	0.978	1.32	A	A	A	A	A	A	A	A	D	B	D	A	A	A	A	A	A		
Cerotic Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>24</sub> COOH	0.819 @ 100°C		A	C	D	C	D	A	A	B	B	C	A	A	A	A	A	A	A		
Cetane	Hexadecane	0.773		A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	A		
Chlorinated Solvents				A	A	A	A	A	A	A	A	D	D	A	A	A	A	A	A	A	No Water Present	
Chlorine (Dry)	Cl <sub>2</sub>	1.46		D	D	B	D	C	B	B	B	D	D	D	A	A	D	A	D	A	No Moisture Present	

Note 1: Avoid dissimilar metals.

Note 2: For rotary meters recommend LPG trim.

Note 3: C or D rating given due to possible contamination of metered product by metal. Material compatibility may be satisfactory.



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Chloroacetic Acid	CH <sub>2</sub> CICOOH	1.370 @ 70°C		D	D	D	D	D	D	D	D	D	B	D	A	D	A	A	A	Hastelloy	
Chlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl	1.105 @ 25°C	0.79	B	B	B	A	B	B	B	B	D	D	D	A	A	B	A	A		
Chloroform (Dry)	CHCl <sub>3</sub>	1.485 @ 20°C	0.58	D	B	B	A	B	A	A	A	D	D	D	A	A	A	A	A	Note 1	
Chlorosulfonic Acid	ClSO <sub>2</sub> OH	1.76 @ 20°C		B	B	B	D	B	B	B	D	D	D	D	D	A	D	A	A		
Chlorothene	CH <sub>3</sub> CCl <sub>3</sub>	1.319 @ 25°C		A	A	A	A	A	A	A	A	D	A	A	A	B	A	A	A		
Chromic Acid	H <sub>2</sub> CrO <sub>4</sub>	2.67		D	D	D	D	D	C	C	D	B	D	A	A	D	A	D	A	Lead, All y 20	
Citric Acid	C <sub>3</sub> H <sub>4</sub> OH(COOH) <sub>3</sub>	1.54		C	D	D	C	D	A	A	D	A	A	A	A	A	A	A	A		
Coca Cola						A		A	A	A						A	A	A	A		
Coconut Oil		0.925	27.0	B	B	C	A	C	A	B	A	A	A	A	A	A	A	A	A	Note 3	
Codliver Oil		0.918	160 SSU	A	A	D	A	D	A	A	B	A	A	A	A	A	A	A	A	Note 3	
Copper Nitrate 5–50%	Cu(NO <sub>3</sub> ) <sub>2</sub> ·3H <sub>2</sub> O	2.174		D	D	D	D	D	A	A	B					A	A	A	A		
Copper Sulfate	CuSO <sub>4</sub> ·5H <sub>2</sub> O	2.284		C	D	D	C	D	B	B	B	A	A	A	A	A	A	A	A		
Cottonseed Oil		0.915–0.921	70.4	B	B	C	A	C	B	B	B	A	C	A	A	A	A	A	A	No Cd. Plating Note 3	
Corn Oil	(Fatty Acid)	0.914–0.921	26.0*	B	B	C	A	C	A	B	B	A	C	A	A	A	A	A	A	*Vis. @ 130°F Note 3	
Cresylic Acid (50%)	(Cresol)	1.034		C	C	D	C	C	B	B	A	D	D	A	A	A	A	A	A		
Crude Oil (Sweet)	0.2–0.5% Sulfur			A	B	B	A	A	A	A	A	B	D	A	A	A	A	A	A		
Crude Oil (Sour)	0.5–2.5% Sulfur			A	D	B	B	B	A	A	B	B	D	A	A	A	A	A	A	Note 1	
Cryogenics	Liquid O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub>			A	D	D	A	D	A	A	B	D	D	D	D	A	D	A	D		
Cumene	C <sub>6</sub> H <sub>5</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	0.862	0.73	B	B	A	B	B	B	B	B	D	D	A	A	D	A	A	A		
Cupric Chloride	CuCl <sub>2</sub> ·2H <sub>2</sub> O	2.39		D	D	D	D	D	D	D	D	A	A	A	A	A	A	A	A		
Cuprous Chloride	CuCl	3.35		D	D	D	D	D	D	D	D	A	A	A	A	A	A	A	A		
Cutting Oil-Water Emulsions				A	A	B	A	B	A	A	A	A	D	A	A	A	A	A	A		
Cyclo Hexane	C <sub>6</sub> H <sub>12</sub>	0.779	1.02	A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A		
Cyclo Hexanone	C <sub>6</sub> H <sub>10</sub> O	0.943		B	B	B	A	D	B	B	B	D	B	D	A	A	A	A	A		
D.D.T.	(CLC <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> CHCCl <sub>3</sub>			D	D	A	A	A	A	A	A	B	D	A	A	A	A	A	A		
Decyl Alcohol	C <sub>10</sub> H <sub>21</sub> OH	0.829		A	A	A	A	A	A	A	A				A	A	A	A	A		
Denatured Alcohol	(Denatured Ethyl Alcohol)			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Diammonium Phosphate	Ammonium Phosphate	1.61		B	D	D	D	D	A	A	B	A	A	A	A	A	A	A	A		
Diocetylphthalate	(C <sub>8</sub> H <sub>17</sub> COO) <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	0.965		B	A	B	A	B	B	A	B	D	B	B	A	A	A	A	A		
Dibutyl Phthalate	C <sub>6</sub> H <sub>4</sub> (COOC <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>	1.048 @ 20°C	20.0	B	B	B	A	B	B	B	A	B	D	B	B	B	A	A	A		
Dichloroethyl Ether	C <sub>2</sub> H <sub>4</sub> ClOC <sub>2</sub> H <sub>4</sub> Cl	1.222	2.95	A	A	A	A	A	A	A	A	D	C	C	A	A	A	A	A		
Dichloro Propane	CH <sub>3</sub> CHClCH <sub>2</sub> Cl	1.158	0.88	B	B	A	A	A	A	A	A	B	D	A	A	A	A	A	A		
Diethanol Amine	(HOCH <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> NH	1.092		A	D	A	A	A	A	A	A	B	B	D	A	A	A	A	A	Note 1	
Diethyl Aniline	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>3</sub> NH <sub>2</sub>	0.959		B	D	A	A	B	B	B	B	D	A	D	A	A	A	A	A	Note 1	
Diethyl Ketone	C <sub>2</sub> H <sub>5</sub> COC <sub>2</sub> H <sub>5</sub>	0.816		A	A	A	A	A	A	A	A	D	A	D	A	A	A	A	A		
Diethylene Glycol	C <sub>4</sub> H <sub>8</sub>			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Hygroscopic Liquid	
Diethylene Triamine	(NH <sub>2</sub> C <sub>2</sub> H <sub>4</sub> ) <sub>2</sub> NH	0.954	7.0	A	D	A	A	A	A	A	A	B	B	D	A	A	A	A	A	Note 1	
Diethyl Sulfate	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> SO <sub>4</sub>	1.180	1.79	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	Anhydrous	
Di-octyl Adipate	D.O.A.	0.926	13.7	D	D	A	A	A	A	A	A	D	B	B	B	A	A	A	A		
Dipentine	C <sub>10</sub> H <sub>16</sub>	0.847 @ 15°C		A	A	A	A	A	A	A	A	D	D	A	A	A	A	A	A		

Note 1: Avoid dissimilar metals.

Note 3: C or D rating given due to possible contamination of metered product by metal. Material compatibility may be satisfactory.



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Chemicals	Formula	Sp. Gr. (60°F)	Typical (60°F) Viscosity (CPS)	Aluminum	Bronze	Cast Iron	Tungsten Carb. Carbon Steel	304SS-17-4PhSS	316 SS	440CSS	Buna-N	EPR	Viton	Teflon	Ryton	Carbon Peek	Hastelloy C-276	Chemraz	Remarks
Diisobutyl Ketone	C <sub>4</sub> H <sub>9</sub> COC <sub>4</sub> H <sub>9</sub>	0.808		A	A	A	A	A	A	D	A	D	A	A	A	A	A		
Dimethylamine	(CH <sub>3</sub> ) <sub>2</sub> NH	0.686		A	D	A	A	A	A	B	B	D	A	B	A	A	A	Note 1	
Dimethyl Formamide	HCON(CH <sub>3</sub> ) <sub>2</sub>	0.953		D	D	A	A	A	A	D	B	B	A	A	A	A	A		
Dioxane	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	1.035 @ 20°C	1.31	B	A	A	A	A	A	D	B	D	A	A	A	A	A		
Dipropylene Glycol	(C <sub>3</sub> H <sub>6</sub> OH) <sub>2</sub> O	1.025	107.0	A	A	A	A	B	B	B	A	A	A	A	A	A	A		
Dodecyl Benzene	Detergent			A	A	A	A	A	A	A	D	D	A	A	A	A	A		
Dowtherms	Diphenyl Oxides	1.060		A	A	B	A	B	A	A	D	D	A	A	A	A	A		
Ethane	C <sub>2</sub> H <sub>6</sub>	0.446		A	A	A	A	A	A	A	D	A	A	A	A	A	A	Note 2	
Ether Dimethyl	CH <sub>3</sub> OCH <sub>3</sub>	0.661	0.23	B	B	B	A	A	A	D	C	C	A	A	A	A	A		
Ethers	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O	0.736	0.23	B	B	B	A	B	A	A	D	C	C	A	A	A	A		
Ethanol Amine	HOCH <sub>2</sub> CH <sub>2</sub> NH <sub>2</sub>	1.017		A	D	B	A	B	A	B	B	B	D	A	A	A	A	Note 1	
Ethyl Acetate	CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>	0.883	0.45	A	C	C	A	B	B	B	D	B	D	A	A	A	A		
Ethyl Acrylate	CH <sub>2</sub> CHCOOC <sub>2</sub> H <sub>5</sub>	0.92		A	A	A	A	A	A	A	D	B	D	A	A	A	A		
Ethyl Amine	CH <sub>3</sub> CH <sub>2</sub> NH <sub>2</sub>	0.689		A	D	B	A	B	A	B	B	B	D	A	A	A	A	Note 1	
Ethyl Aniline	C <sub>2</sub> H <sub>5</sub> NHC <sub>6</sub> H <sub>5</sub>	0.963	2.04	B	D	A	A	B	B	B	D	A	D	A	A	A	A		
Ethyl Benzene	C <sub>6</sub> H <sub>5</sub> C <sub>2</sub> H <sub>5</sub>	0.867	0.64	A	B	B	A	B	B	B	D	A	A	A	A	A	A	Note 2	
Ethyl Chloride (Dry)	C <sub>2</sub> H <sub>5</sub> Cl	0.921		B	B	B	B	A	A	A	A	A	A	A	A	A	D	Note 2	
Ethyl Chloride (Wet)	C <sub>2</sub> H <sub>5</sub> Cl	0.921		D	C	D	C	C	D	A	A	A	A	A	A	A	D	Note 2	
Ethyl Ether	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O	0.714	0.23	B	B	B	B	A	A	A	D	C	C	A	A	A	A		
Ethyl Hexanol	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> COH(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub>	0.83		B	B	A	A	A	A	A	A	A	A	A	A	A	A		
Ethyl Lactate	CH <sub>3</sub> CHOHCOOC <sub>2</sub> H <sub>5</sub>	0.1020		B	B	B	B	B	B	B	B	A	A	A	A	A	A		
Ethyl Mercaptan	C <sub>2</sub> H <sub>5</sub> SH	0.839		B	D	A	B	D	B	B	D	D	A	A	A	A	A	Note 1	
Ethyl Propyl Myristate	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>12</sub> COOC <sub>2</sub> H <sub>5</sub>			A	A	A	A	A	A	A	D	A	D	A	A	A	A		
Ethyl Propyl Palmitate	C <sub>2</sub> Hg(CH <sub>2</sub> ) <sub>14</sub> COOC <sub>2</sub> H <sub>5</sub>	0.83		A	A	A	A	A	A	A	D	A	D	A	A	A	A		
Ethylene Chlorohydrin	ClCH <sub>2</sub> CH <sub>2</sub> OH	1.204	3.4	D	B	B	B	B	B	B	D	B	A	A	A	A	A		
Ethylene Cyanohydrin	HOCH <sub>2</sub> CH <sub>2</sub> CN	1.04		B	B	B	B	D	B	B	A	D	A	A	A	A	A		
Ethylene Diamine	(CH <sub>2</sub> ) <sub>2</sub> (NH <sub>2</sub> ) <sub>2</sub>	0.899	1.54	C	D	B	A	B	A	B	A	A	D	A	A	A	D	Note 1	
Ethylene Dichloride	CH <sub>2</sub> CICH <sub>2</sub> Cl	1.25	0.83	D	B	D	B	A	B	C	C	A	A	A	A	D	A	Anhydrous	
Ethylene Glycol	(CH <sub>2</sub> OH) <sub>2</sub>	1.15	2.18	A	B	B	A	B	B	B	A	A	A	A	A	A	A		
Ethylene Glycol Acetate	CH <sub>200</sub> CH <sub>2</sub>					A		A		D	A	D	A	A	A	A	A		
Ethyl Oxide	Ether	0.714	0.23	B	B	B	A	B	A	A	D	C	C	A	A	A	A	Dry Liquid	
Ethylene	H <sub>2</sub> CCH <sub>2</sub>	0.610 @ 0°C		A	A	A	A	A	A	A	D	A	A	A	A	A	A		
Ethyl Tertiary Butyl Ether (ETBE)	C <sub>2</sub> H <sub>5</sub> OC <sub>4</sub> H <sub>9</sub>			A	A	A	A	A	A	A	A	D	A	A	A	A	A		
Fatty Acids				A	D	D	B	D	B	A	B	B	C	A	A	A	A		
Ferric Chloride	FeCl <sub>3</sub>	2.8		D	D	D	D	D	D	D	D	D	A	A	A	D	C	Hastelloy C	
Ferric Sulphate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·9H <sub>2</sub> O	2.0-2.1		D	D	D	D	D	B	A	B	A	A	A	A	A	A		
Ferrous Chloride	FeCl <sub>2</sub> ·4H <sub>2</sub> O	1.93		D	D	D	D	D	D	D	A	A	A	A	A	D	A		
Ferrous Sulphate	FeSO <sub>4</sub> ·7H <sub>2</sub> O	1.89		D	B	D	D	B	A	A	A	A	A	A	A	A	A		
Fish Oil						A	A	A	A		A	A	A	A	A	A	A		
Flexol Plasticizer	DoP			A	A	A	A	B	B	B	D	B	B	A	A	A	A		
Formaldehyde (37%)	HCHO	1.075		B	A	C	C	C	A	B	C	B	D	A	A	B	A	Note 3	
Formic Acid	HCOOH	1.22 @ 20°C		B	C	D	C	D	B	A	C	A	A	A	A	A	A	All Concentration	
Fruit Juices	Fructose			B	B	D	A	D	A	A	A	A	A	A	A	A	A	No SO <sub>2</sub> Present	
Furfural (25%)	C <sub>4</sub> H <sub>3</sub> OCHO	1.15	1.49	B	B	B	B	B	B	B	D	B	D	A	A	A	A		
Fertilizer Solutions	NH <sub>4</sub> NO <sub>3</sub> Phosphate KC <sub>1</sub> NH <sub>4</sub>	0.811		D	D	A	A	A	A	A	A	A	A	A	A	A	A	Note 1	
Freon-11, 12	CCl <sub>3</sub> F			B	B	B	A	B	A	A	B	D	B	A	A	D	B		

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Chemicals	Formula	Sp. Gr. (60°F)	Typical (60°F) Viscosity (CPS)	Aluminum	Bronze	Cast Iron	Tungsten Carb. Carbon Steel	304SS-17-4PhSS	316 SS	440CSS	Buna-N	EPR	Viton	Teflon	Ryton	Carbon	Peek	Hastelloy C-276	Chemraz	Remarks	
Fuel Oils #1-#3		0.82-0.95		A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	34-45 SSU		
Fuel Oils #4-#6		0.82-0.95		A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	50-3,000SSU		
Gallic Acid	C <sub>6</sub> H <sub>2</sub> (OH) <sub>3</sub> CO <sub>2</sub> H	1.69		B	C	D	B	D	B	B	B	B	A	A	A	A	A	A	A		
Gasoline	C <sub>6</sub> H <sub>14</sub> -C <sub>10</sub> H <sub>2</sub>	0.66-0.69		A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A		
Glass Water	Sodium Silicate			D	D	B	B	B	B	B	B	A	A	A	A	A	A	A	Note 1		
Galuber's Salts	Sodium Sulfate	1.46		A	B	B	B	B	A	B	D	B	A	A	A	A	A	A	Note 1		
Gluconic Acid	CH <sub>2</sub> OH(CHON) <sub>4</sub> COOH			B	B	B	B	A	B	B	B	A	A	A	A	A	A	A			
Glycerol (Glycerine)	C <sub>3</sub> H <sub>5</sub> (OH) <sub>3</sub>	1.260		A	A	B	A	B	A	A	A	A	A	A	A	A	A	A	2,950 SSU @ 68.6°F		
Glyoxal	OHCCHO	1.26		B	B	B	A	B	A	A	A	A	A	A	A	A	A	A			
Gypsum	CaSO <sub>4</sub> ·2H <sub>2</sub> O	2.31		B	B	B	B	B	A	A	A	A	A	A	A	A	A	A			
Glucose	Corn Syrup			A	A	B	A	B	A	A	A	A	A	A	A	A	A	A	67,500 SSU @ 100°F		
Glycols	Ethanediol	1.11		B	B	D	A	B	A	A	B	A	A	A	A	A	A	A	90-240 SSU @ 70°F		
Hempseed Oil		0.925															A	A	A		
Heptane	C <sub>7</sub> H <sub>16</sub>	0.683	0.409	A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	Note 2	
Hexadecane	(Cetane) C <sub>16</sub> H <sub>34</sub>	0.773	3.3	A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A		
Hexane	C <sub>6</sub> H <sub>14</sub>	0.659	0.326	A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	Note 2	
Hexyl Alcohol	C <sub>6</sub> H <sub>13</sub> OH	0.818		A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A		
Hexylene Glycol	C <sub>6</sub> H <sub>12</sub> (OH) <sub>2</sub>	0.921		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Hydraulic Oil	Petroleum Based		60.0	A	B	B	A	A	A	A	A	D	A	A	A	A	A	A	A		
Hydroiodic Acid	Hl	1.70		D	D	D	D	B	B	B	B	A	A	A	A	A	A	A	A		
Hydrobromic Acid (48%)	HBr	1.488		D	D	D	D	D	D	D	D	D	A	A	A	A	A	D	B	A	
Hydrochloric Acid-All Concentration Rubber, Glass-	HCl	1.19		D	D	D	D	D	D	D	D	D	C	A	A	D	D	D	A	A	Hastelloy A-Lined Vessels
Hydrocyanic Acid	HCN	0.697		A	D	B	D	A	B	B	B	B	A	A	A	A	A	D	A		
Hydrofluoric Acid	HF			D	D	D	D	D	D	D	D	D	B	D	A	A	D	B	A	Rubber, Lead Linings	
Hydrogen Peroxide (30%)	H <sub>2</sub> O <sub>2</sub>			D	D	D	D	D	A	A	B	B	A	A	A	A	A	A	A	Low Pressure and Temp.	
Hydrogen Peroxide (70%)	H <sub>2</sub> O <sub>2</sub>	1.46		D	D	D	D	D	A	A	A	D	C	A	A	A	A	A	A	SS Must be Passivated	
Hydrogen Sulfide (N. Aq.)	H <sub>2</sub> S	1.185		A	D	B	D	D	A	A	B	A	A	D	A	A	A	A	A		
Hydrogen Sulfide (Aq.)	H <sub>2</sub> S	1.185		A	D	B	D	D	A	A	B	D	A	D	A	A	A	A	A		
Iron Potassium Sulfate	FeK(SO <sub>4</sub> ) <sub>2</sub> ·12H <sub>2</sub> O	1.80		A	B	D	B	D	B	B	B	A	A	A	A	A	A	A	A		
Iso-Butane	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>3</sub>	0.564		A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	Note 2	
Iso-Butanol	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> OH	0.806	4.0	A	B	B	A	B	A	A	A	B	A	A	A	A	A	A	A		
Iso-Butylamine	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> NH <sub>2</sub>	0.731	0.55	A	D	B	A	B	A	A	C	D	D	A	A	A	A	A	A		
Iso-Butyl Acetate	C <sub>4</sub> H <sub>9</sub> OOCCH <sub>3</sub>	0.868	0.7	A	B	A	A	A	A	A	D	A	D	A	A	A	A	A	A		
Iso-Decanol	C <sub>10</sub> H <sub>21</sub> OH	0.839		A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A		
Iso-Hexanol	C <sub>6</sub> H <sub>13</sub> OH	0.818		A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A		
Iso-Octane	C <sub>8</sub> H <sub>18</sub>	0.691		A	A	B	A	A	A	A	A	D	A	A	A	A	A	A	A	Note 2	
Iso-Pentane	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> CH <sub>3</sub>	0.619	0.22	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A		
Iso-Propanol	C <sub>3</sub> H <sub>7</sub> OH	0.786	2.10	A	A	B	A	B	A	A	B	B	A	A	A	A	A	A	A		
Iso-Propyl Acetate	CH <sub>3</sub> COOCH(CH <sub>3</sub> ) <sub>2</sub>	0.869	0.49	A	C	C	A	B	B	B	B	D	B	D	A	A	A	A	A		
Iso-Propyl Ether	(CH <sub>3</sub> ) <sub>2</sub> CHOCH(CH <sub>3</sub> ) <sub>2</sub>	0.723	0.32	A	A	B	A	A	A	A	B	D	D	A	A	A	A	A	A		
Iso-Propyl Amine	C <sub>3</sub> H <sub>7</sub> NH <sub>2</sub>	0.688		A	D	B	A	B	A	B	B	A	A	A	A	A	A	A	A		
Iso-Phorone	C <sub>9</sub> H <sub>14</sub> O	0.922	2.62	A	A	A	A	A	A	A	D	A	D	A	A	A	A	A	A		

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Iso-Valeric Acid	C <sub>5</sub> H <sub>9</sub> OOH	0.931																	
Inks—Printers		1.00–1.38	500.0	B	C	D	A	D	B	A	B					A	A	A	A
Jet Fuel	JP-4, JP-5, JP-6			A	B	A	A	A	A	A	A	A	D	A	A	A	A	A	Gasoline-Kerosene Blend
Kerosene		0.802	30 SSU	A	A	B	A	B	A	A	A	A	D	A	A	A	A	A	
Ketone, Butylethyl	C <sub>4</sub> H <sub>9</sub> COC <sub>2</sub> H <sub>5</sub>	0.819		A	A	A	A	A	A	A	A	D	A	D	A	A	A	A	
Ketone, Diethyl	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> CO	0.816		A	A	A	A	A	A	A	A	D	A	D	A	A	A	A	
Ketone, Di-Iso-Propyl	C <sub>4</sub> H <sub>8</sub> CO			A	A	A	A	A	A	A	A	D	A	D	A	A	A	A	
Ketone, Methyl Ethyl	CH <sub>3</sub> COC <sub>2</sub> H <sub>5</sub>	0.825	.40	A	A	A	A	A	A	A	A	D	A	D	A	A	A	A	
Ketone (MIBK)	C <sub>4</sub> H <sub>9</sub> COCH <sub>3</sub>	0.804	0.59	A	A	A	A	A	A	A	A	D	A	D	A	A	A	A	
Lactic Acid	CH <sub>3</sub> CHOHCOOH	1.2 @ 20°C		A	D	D	C	D	A	A	C	A	A	A	A	A	B	A	
Lacquer		0.900		A	A	D	A	D	A	A	A			A	A	A	A	A	
Lard Oil	Grease Oil	1.470		A	A	C	A	C	A	A	A	B	A	A	A	A	A	A	287 SSU @ 100°F - Note 3
Latex Sol (70%)	Ph 1.7		900.0					A	A	A	A			A	A	A	A	A	
Lauric Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>10</sub> COOH	0.833		A	C	D	C	A	A	A	A			A	A	A	A	A	
Lecithin	1.0	5,000 SSU		A	A	C	C	A	A	A	A			A	A	A	A	A	
Ligroin	Petroleum Ether			A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	
Linoleic Acid	C <sub>10</sub> H <sub>17</sub> (CH <sub>2</sub> ) <sub>7</sub> COOH	0.905		A	B	B	C	B	A	A	B	B	D	B	A	A	A	A	
Linolenic Acid	(C <sub>10</sub> H <sub>15</sub> CH <sub>2</sub> ) <sub>7</sub> COOH	0.916		A	B	B	C	B	A	A	B	B	D	B	A	A	A	A	
Linseed Oil	Flaxseed Oil	0.931	33.0	A	B*	B*	A	B*	A	A	B	A		A	A	A	A	A	Corrosive if Free Acid Present
Liquefied Pet. Gas	L.P.G.			A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	Note 2
Liquid Feed	Morea	1.2	22.0					A	A	A	A			A	A	A	A	A	
Magnesium Hydroxide	Mg(OH) <sub>2</sub>	2.36		D	B	B	B	B	A	A	B	A	A	A	A	A	A	A	Note 1
Magnesium Chloride (10%)	MgCl <sub>2</sub> ·6H <sub>2</sub> O	1.56		D	D	B	B	B	A	A	C	A	A	A	A	B	A	A	
Magnesium Nitrate	Mg(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O	1.46		B	C	B	B	B	A	A	A	A	A	A	A	A	A	A	Note 1
Magnesium Sulfate	Mg(SO <sub>4</sub> ) <sub>2</sub> ·7H <sub>2</sub> O	1.678		B	D	B	B	B	A	A	D	A	A	A	A	A	A	A	Note 1
Maize Oil								A	A	A	A			A	A	A	A	A	
Maleic Acid	(CHCOOH) <sub>2</sub>	1.59		B	B	B	C	B	A	A	B	D	D	A	A	A	A	A	
Malonic Acid	CH <sub>2</sub> (COOH) <sub>2</sub>	1.63					C	A	A					A	A	A	A	A	
Menhaden Oil (10%)	Moss Bunker Oil	0.927–0.933	28.0				A	A	A					A	A	A	A	A	Viscosity @ 100°F
Mercuric Chloride	HgCl <sub>2</sub>	5.32		D	D	D	D	D	D	D	D	A	A	A	A	A	A	A	Titanium
Mesityl Oxide (Ketone)	(CH <sub>3</sub> ) <sub>2</sub> C <sub>3</sub> HOCH <sub>3</sub>	0.863	0.60	B	B	B	A	A	B	B	B	D	B	D	A	A	A	A	
Methyl Acetate	CH <sub>3</sub> COOCH <sub>3</sub>	0.924	0.38	A	C	C	B	B	B	B	B	D	B	D	B	A	A	A	Alloy 20
Methyl Acrylate	C <sub>3</sub> H <sub>5</sub> OOCH <sub>3</sub>	0.957		A	B	B	A	A	A	A	D	B	D	B	A	A	A	A	
Methyl Amine	CH <sub>3</sub> NH <sub>2</sub>		0.23	B	D	B	B	B	B	B	B	A		A	A	A	A	A	Note 1
Methyl Amyl Acetate	C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>	0.859		A	C	C	B	B	B	B	B	A	D	A	A	A	A	A	
Methyl Amyl Alcohol	C <sub>6</sub> H <sub>13</sub> OH	0.807		A	B	B	A	B	A	A	A	A	A	A	A	A	A	A	
Methyl Aniline	C <sub>6</sub> H <sub>5</sub> NH(CH <sub>3</sub> )	0.991	2.02	B	D	A	B	A	B	B	D	A	D	A	D	A	A	A	Note 1
Methyl Cellosolve	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> OH			A	A	B	A	B	A	A	C	B	D	A	A	A	A	A	
Methyl Cyclohexane	C <sub>7</sub> H <sub>14</sub>	0.769		A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	
Methyl Cyclo Hexanol	CH <sub>3</sub> C <sub>6</sub> H <sub>10</sub> OH			A	B	B	A	B	A	A	A	D	A	A	A	A	A	A	
Methyl Glycol Acetate				A	C	C	A	A	A	A	D	A	D	A	D	A	A	A	
Methyl Methacrylate	CH <sub>2</sub> C(CH <sub>3</sub> )COOCH <sub>3</sub>	0.940		A	A	A	A	A	A	A	D	D	D	A	A	A	A	A	
Methyl Pyrrolidone	CH <sub>3</sub> NC <sub>3</sub> H <sub>6</sub> CO			D	D	A	A	A	A	A	D	A	D	A	D	A	A	A	
Methyl Salicylate	C <sub>6</sub> H <sub>4</sub> OHCOOCH <sub>3</sub>	1.180					A	A	A	D	B	C	A	A	A	A	A		

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Chemicals	Formula	Sp. Gr. (60°F)	Typical (60°F) Viscosity (CPS)	Aluminum	Bronze	Cast Iron	Tungsten Carb.	Carbon Steel	304SS-17-4PHSS	316 SS	440CSS	Buna-N	EPR	Viton	Teflon	Ryton	Carbon	Peek	Hastelloy C-276	Chemraz	Remarks
Methyl Tertiary Butyl Ether (MTBE)	CH <sub>3</sub> OC <sub>4</sub> H <sub>9</sub>	0.74	.35	A	A	A	A	A	A	A	D	D	A	A	A	A	A	A	A		
Methylene Chloride	CH <sub>2</sub> Cl <sub>2</sub>	1.33	0.42	D	B	B	B	B	B	B	D	D	B	A		A	A	A	A	Note 1	
Methylene Dichloride				C	B	B	B	B	B	B	D	D	B	A	A	A	A	A	A	Note 1	
Methylene Glycol	CH <sub>2</sub> (OH) <sub>2</sub>			B	B	B	A	B	A	A	A	D	A	A	A	A	A	A	A		
Milk	Lactic Acid	1.028–1.035	1.16			A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Mineral Spirits	Naphtha			A	B	B	A	B	B	B	A	D	A	A	A	A	A	A	A	Note 2	
Molasses (Crude)	Mother Liquor	1.40–1.46	151.5	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Viscosity @ 130°F	
Molasses (Edible)	Blackstrap	1.46–1.49	1320.0	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Viscosity @ 130°F	
Monochlorobenzene	C <sub>6</sub> H <sub>5</sub> CL	1.105		B	B	B	A	B	B	B	D	D	A	A	A	A	A	A	A		
Monoethanolamine				D	D	A	A	A	A	A	A	D	B	D	A	A	A	A	A		
Muriatic Acid	Hydrochloric			D	D	D	D	D	D	D	D	D	C	A	A	A	A	D	A		
Myristic Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>12</sub> COOH	0.873		A	A	A	C	A	A	A			A	A	A	A	A	A	A		
Methane	CH <sub>4</sub>	0.554		A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	Note 2	
Naphtha (Aliphatic)		0.665		A	B	B	A	B	B	B	A	D	A	A	A	A	A	A	A	Note 2	
Naphtha (Aromatic)		0.885–0.970		A	B	B	A	B	B	B	B	D	A	A	A	A	A	A	A	Note 2	
Naphtha (V.M. and P.)				A	B	B	A	B	B	B	B	D	A	A	A	A	A	A	A	Note 2	
Neatsfoot Oil		0.916				A	A	A	A	B	A	A	A	A	A	A	A	A	A	230 SSU @ 100°F	
Nickel Ammonium Sulfate (10%)	NiSO <sub>4</sub> ·(NH <sub>4</sub> ) <sub>2</sub> ·6H <sub>2</sub> O	1.92		D	D	D	D	D		D	A	A	A		A	A	A	A	A	Monel	
Nickel Chloride (37%)	CiCl <sub>2</sub> ·6H <sub>2</sub> O	1.35		D	D	D	D	D	D	B	D	A	A	A	A	A	A	A	A		
Nickel Sulfate (25%)	NiSO <sub>4</sub> ·6H <sub>2</sub> O	1.20		D	B	D	D	D	A	A	A	A	A	A	A	A	A	A	A		
Nitro Benzene	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	1.198		B	B	B	A	A	B	B	B	D	D	B	A	A	C	B	A		
Nitro Ethane	C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub>	1.052		A	A	A	A	A	A	A	A	D	B		A	A	A	C	B	A	
Nitro Propane	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	1.003		A	A	A	A	A	A	A	A	D	B	D	A	A	A	C	B	A	
Nonenes	C <sub>9</sub> H <sub>18</sub>	0.743		A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A		
Nitric Acid (10%)	HNO <sub>3</sub>	1.074		B	D	D	D	D	A	A	B	D	D	A	A	A	A	A	B	A	
Nitric Acid (30%)	HNO <sub>3</sub>	1.186		D	D	D	D	D	A	A	B	D	D	A	A	D	A	D	A	A	
Nitric Acid (50%)	HNO <sub>3</sub>	1.318	0.76	D	D	D	D	D	A	A	B	D	D	B	A	D	A	D	A	A	
Nitric Acid (70%)	HNO <sub>3</sub>	1.421		D	D	D	D	D	A	A	B	D	D	B	A	D	A	D	B	A	
Nitric Acid (100%)	HNO <sub>3</sub>	1.502		A	D	D	D	D	A	A	D	D	D	B	A	D	A	D	B	D	
Nitrocumene	C <sub>6</sub> H <sub>4</sub> CH(CH <sub>3</sub> ) <sub>2</sub> NO <sub>2</sub>			C	D	B	B	B	B	B	B	B	B	C	D	A	A	A	A		
Nitro Fluorobenzene	C <sub>6</sub> H <sub>4</sub> NO <sub>2</sub> FL		2.0	C	D	B	B	B	B	B	B	B	B	C	D	A	A	C	B		
N. Octane	C <sub>8</sub> H <sub>18</sub>	0.702	0.54	A	A	A	A	A	A	A	B	D	B	A	A	A	A	A	A		
Oleic Acid (40%)	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>14</sub> C <sub>2</sub> H <sub>2</sub>	0.890		D	D	D	C	D	A	A	B	C	D	B	A	A	A	A	A	Note 3	
Oxalic Acid (50%)	(COOH) <sub>2</sub>	1.653		D	D	B	C	B	A	A	B	B	A	A		A	C	A	A		
Olive Oil	Sweet Oil	0.910	84.0	A	B	B	A	B	A	A	A	B	A	A	A	A	A	A	A	200 SSU @ 100°F	
Oil-Lube			113.0	A	B	A	A	A	A	A	A	A	D	A	A	A	A	A	A		
Oils-Mineral				A	B	B	A	B	A	A	A	A	D	A	A	A	A	A	A		
Oils-Petroleum				A	B	B	A	A	A	A	A	A	D	A	A	A	A	A	A		
Oils-Water Emu.				A	A	B	A	B	A	A	A	A	D	A	A	A	A	A	A		
Ortho-Dichloro-Benzene	C <sub>6</sub> H <sub>4</sub> CL <sub>2</sub>	1.305		B	B	B	B	B	B	B	B	D	D	A	A	A	A	A	B	A	
Palmitic Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>14</sub> COOH	0.841		B	B	C	C	C	B	B	B	B	A	D	A	A	A	A	A		
Palm Oil			0.924 @ 100°	44.0	A	B	C	A	C	B	B	B	A	C	A	A	A	A	A		
Paradyne				A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A		

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Chemicals	Formula	Sp. Gr. (60°F)	Typical (60°F) Viscosity (CPS)	Material Compatibility										Remarks				
				Aluminum	Bronze	Cast Iron	Tungsten Carb.	Carbon Steel	304SS-17-4PhSS	316 SS	440CSS	Buna-N	EPR	Viton	Teflon	Ryton	Carbon	Peek
Paraffin		0.83–0.93		A	A	B	A	B	A	A	A	A	B	A	A	A	A	A
Para-tert-Amyl Phenol	(CH <sub>3</sub> ) <sub>2</sub> C <sub>2</sub> H <sub>5</sub> CC <sub>6</sub> H <sub>4</sub> OH	0.955		A	A	B	A	B	A	A	A	D	A	A	A	A	B	B
Para-tert-Butyl Phenol	(CH <sub>3</sub> ) <sub>3</sub> CC <sub>6</sub> H <sub>4</sub> OH	1.03		D	D	A	A	A	A	A	A	A		A	A	A	B	A
Paratex	Water Softner			D	D	A	A	A	A	A	A	A		A	A	A	A	A
Parathion	C <sub>10</sub> H <sub>14</sub> NO <sub>5</sub> PS					A	A	A	A	A	A	A	A	A	A	A	A	A
Peanut Oil		0.920 @ 100°	38.0	A	B	C	A	C	B	B	B	A	C	A	A	A	A	A
Pear Oil	Amyl Acetate	0.879	0.89	A	B	C	A	C	B	B	B	D	A	D	A	A	A	A
Pentane	C <sub>5</sub> H <sub>12</sub>	0.626		A	B	B	A	B	B	B	B	A	D	A	A	A	A	A
Perchloroethylene	C <sub>2</sub> Cl <sub>4</sub>	1.65	0.84	B	C	B	A	A	A	A	A	B	D	A	A	A	A	A
Perilla Oil		0.932		A	B	B	A	B	A	B	A	B	A	A	A	A	A	A
Petroleum Ether	Ligroin	0.665		A	A	A	A	A	A	A	A	A	D	A	A	A	A	A
Petroleum Spirits	Naphtha			A	A	A	A	A	A	A	A	A	D	A	A	A	A	A
Phenolic Resins				A	C	C	A	C	A	A	A	B	A	A	A	A	A	A
Phenol (20%)	C <sub>6</sub> H <sub>5</sub> OH	1.07	12.7	A	A	B	A	B	A	A	B	D	A	A	A	A	D	A
Phosphoric Acid (10%)	H <sub>3</sub> PO <sub>4</sub>	1.053		D	D	D	D	D	B	B	B	D	D	A	A	A	A	A
Phosphoric Acid (25%)	H <sub>3</sub> PO <sub>4</sub>	1.152		D	D	D	D	D	B	B	D	D	D	A	A	A	A	A
Phosphoric Acid (75%)	H <sub>3</sub> PO <sub>4</sub>	1.579		D	D	D	D	D	D	B	D	D	D	A	A	A	A	A
Phthalic Acid	C <sub>6</sub> H <sub>4</sub> (CO <sub>2</sub> H) <sub>2</sub>	1.58		B	B	C	C	D	B	B	B	C	C	A	A	A	A	A
Phthalic Anhydride	C <sub>6</sub> H <sub>4</sub> (CO) <sub>2</sub> O	1.527		B	B	C	B	D	B	B	B	C	C	A	A	A	A	A
Picric Acid	C <sub>6</sub> H <sub>2</sub> (NO <sub>2</sub> ) <sub>3</sub> OH	1.76		C	D	C	A	A	A	A	A	A	A	A	A	A	A	A
Polyethylene Glycol	H(OC <sub>2</sub> H <sub>4</sub> )NOH			A	B	B	A	B	B	B	B	A	A	A	A	A	A	A
Polyester Resin				D	D	A	A	A	A	A	A	A	D	A	A	A	A	A
Polypropylene Glycol	CH <sub>3</sub> CHOH (CH <sub>2</sub> OCHCH <sub>3</sub> )N-CH <sub>2</sub> OH			A	B	B	A	B	B	B	B	A	A	A	A	A	A	A
Polyvinyl Acetate	(H <sub>2</sub> C <sub>2</sub> HOOC <sub>2</sub> H <sub>3</sub> )	1.19		A	A	A	A	B	A	A	A	A	A	A	A	A	A	A
Polyvinyl Acetate Emulsion	PVC+H <sub>2</sub> O			A	A	A	A	B	A	A	A	A	A	A	A	A	A	A
Polyvinyl Alcohol	(CH <sub>2</sub> CHOH)x	1.98	2000.0	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A
Polymerized Gasoline				A	A	A	A	A	A	A	A	A	D	A	A	A	A	A
Potassium Chloride	KCl	1.98		D	B	C	C	C	A	A	B	A	A	A	A	D	A	A
Potassium Aluminum Sulfate	AlK(SO <sub>4</sub> ) <sub>2</sub> ·12H <sub>2</sub> O	1.75		B	B	C	C	C	A	A	B	A	A	A	A	A	A	A
Potassium Cyanide (25%)	KCN	1.52		D	D	D	D	B	A	A	B	A	A	A	A	A	A	A
Potassium Hydroxide (25%)	KOH	2.044		D	D	B	B	B	B	B	B	B	A	D	A	A	A	A
Potassium Hydroxide	KOH			D	D	D	B	D	A	A	A	B	A	D	A	A	A	A
Potassium Sulfate	K <sub>2</sub> SO <sub>4</sub>	2.66		B	B	C	B	B	B	B	B	A	A	A	A	A	A	A
Potassium Sulfide	K <sub>2</sub> S	1.80		B	D	D	B	D	B	B	B	A	A	A	A	A	A	A
Potash (Aq.)	K <sub>2</sub> CO <sub>3</sub>	2.33		C	A	B	A	A	B	A	A	A	A	A	A	A	A	A
Propane	C <sub>3</sub> H <sub>8</sub>	0.531		A	A	A	A	A	A	A	A	D	A	A	A	A	A	Note 2
Propionic Acid (20%)	CH <sub>3</sub> CH <sub>2</sub> CO <sub>2</sub> H	0.994		B	B	D	C	D	B	B	D	A	A	A	A	A	A	A
Propylene	C <sub>3</sub> H <sub>7</sub>	0.513		A	A	A	A	A	A	A	D	D	A	A	A	A	A	Note 2
Propylene Diamine	C <sub>3</sub> H <sub>6</sub> (NH <sub>2</sub> ) <sub>2</sub>	0.873	1.70	B	B	B	A	B	A	A	D	D	A	A	A	A	A	A
Propylene Glycol	C <sub>3</sub> H <sub>6</sub> (OH) <sub>2</sub>	1.038	58.0	A	B	B	A	B	B	B	B	A	A	A	A	A	A	A
Propylene Oxide	C <sub>3</sub> H <sub>6</sub> O	0.830		B	B	B	A	B	A	A	B	D	B	D	A	A	A	A
Prussic Acid	HCN	0.697		A	D	B	C	A	B	B	B	B	A	A	A	A	A	A
Pyridine	N(CH) <sub>4</sub> CH	0.978		A	B	B	B	A	A	B	D	B	D	A	B	A	A	A

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Pyrogallic Acid	C <sub>6</sub> H <sub>3</sub> (OH) <sub>3</sub>	1.463		B	B	D	C	D	B	B	B	B	A	A	A	A	A	A	
Pyrrolidine	C <sub>4</sub> H <sub>9</sub> N	0.866		B	B	B	A	B	A	A	B	D	A	D	A	A	A	A	
Rayon (Spun Viscose)				B	B	B	A	B	A	A	B		A	A	A	A	A	A	40,000 SSU @ 80°F
Raffinate		0.712		A	A	A	A	A	A	A	A		A	A	A	A	A	A	
Resins and Rosins				B	B	C	A	C	B	B	B	A		A	A	A	A	A	Note 3
Ricinoleic Acid	C <sub>18</sub> H <sub>32</sub> O(OH) <sub>2</sub>	0.940		B	A	A	C	A	A	A	A		A	A	A	A	A	A	Not Over 21°F
Rotograve-Ink				D	D	A	A	A	A	A	A	D	D	A	A	A	A	A	
Rubber Solvent				A	A	A	A	A	A	A	A		A	A	A	A	A	A	100,000 SSU
Salicylic Acid	C <sub>6</sub> H <sub>4</sub> (OH)(COOH)	1.48	2.71	C	C	D	C	D	A	A	B	B	A	A	A	A	A	A	
Shellacol				A	A	B	A	A	A	A	A		A	A	A	A	A	A	
Shortening							A		A	A	A	A		A	A	A	A	A	Note 3
Sodium Aluminate	Na <sub>2</sub> Al <sub>2</sub> O <sub>4</sub>			C	B	C	B	C	B	A	B	A	A	A	A	A	A	A	
Soap Solutions (0–20%)	Stearates			C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Sodium Bicarbonate (50%)	NaHCO <sub>3</sub>	1.019– 1.108		D	B	B	B	B	A	A	B	A	A	A	A	A	A	A	Note 1
Sodium Carbonate (0–20%)		1.146		D	D	B	B	B	A	A	A	A	A	A	A	A	A	A	
Sodium Chloride (30%)	NaCl	1.012– 1.164		D	B	B	B	B	A	A	A	A	A	A	A	A	A	A	Pitting may Occur
Sodium Chromate	NaCrO <sub>4</sub>	1.261		B	B	B	B	B	B	B	B	A	A	A	A	D	A	A	
Sodium Cyanide	NaCN			D	D	B	D	D	A	A	B	A	A	A	A	A	A	A	Note 1
Sodium Hydroxide (20%)	NaOH	1.219		D	A	A	A	A	A	A	B	A	B	A	A	A	A	A	Note 1
Sodium Hydroxide (30%)	Caustic	1.262		D	A	A	A	A	A	A	B	A	B	A	B	A	A	A	Note 1
Sodium Hydroxide (50%)	Soda	1.525		D	D	B	C	B	B	B	B	B	A	B	A	A	A	A	Note 1
Sodium Hydroxide (70%)	Soda	1.788		D	D	D	C	D	B	B	B	B	A	B	A	A	A	A	Note 1
Sodium Hypochlorite (5%)	NaOCl			D	D	D	C	D	D	D	D	B	B	A	A	A	A	A	Hastelloy C
Sodium Meta Phosphate	NaPO <sub>3</sub>			D	B	B	B	D	B	B	B	A	A	A	A	A	A	A	Note 1
Sodium Metasilicate	Na <sub>2</sub> SiO <sub>3</sub>	2.61		D	D	B	C	B	A	A	A	A	A	A	A	A	A	A	No Brass
Sodium Monochloro Acetic Acid	NaCH <sub>3</sub> COOCL	1.328		D	D	D	D	D	A	A	A	D	D	A	A	A	A	A	
Sodium Nitrate	NaNO <sub>3</sub>	1.36		A	B	B	C	B	A	A	B	B	A		A	A	A	A	Note 1
Sodium Perborate (10%)	NaBO <sub>2</sub>			D	B	B	B	B	B	B	B	B	A	A	A	A	A	A	
Sodium Peroxide (10%)	Na <sub>2</sub> O <sub>2</sub>	2.80		C	D	C	B	B	A	A	B	B	A	A	A	A	A	A	Note 1
Sodium Phosphate (5%)	Na <sub>2</sub> HPO <sub>4</sub>	1.52		D	B	B	B	B	B	B	B	B	A	A	A	A	A	A	Note 1
Sodium Silicate	Na <sub>2</sub> O-SiO <sub>2</sub>	1.56		D	D	B	B	B	B	B	B	B	A	A	A	A	A	A	Note 1
Sodium Sulfate (0–50%)	Na <sub>2</sub> SO <sub>4</sub>	1.047		A	B	B	B	B	A	A	A	A	A	A	A	A	A	A	Note 1
Sodium Sulfide	Na <sub>2</sub> S-5H <sub>2</sub> O	1.02–1.36		D	D	C	B	C	B	B	B	A	A	A	A	A	A	A	Note 1
Sodium Thiosulfate (25%)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1.232		A	B	D	B	D	B	B	B	B	A	A	A	A	A	A	Pitting may Occur
Sodium Xylene Sulfonate	(CH <sub>3</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>3</sub> SO <sub>3</sub> Na-H <sub>2</sub> O			A	B	A	A	A	A	A	A	D	D	A	A	A	A	A	
Solvesso-100–150 Aromatic Solvents		0.889	1.17	A	A	A	A	A	A	A	A	C	D	A	A	A	A	A	
Soybean Oil		0.924	40.6	B	B	D	A	D	A	A	A	D	A	A	A	A	A	A	No Cad. Plat- ing - Note 3
Stoddard's Solvent		0.780		A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	
Soups							A		A	A					A	A	A	A	
Sperm Oil		0.878	42.0				A		A	A					A	A	A	A	110 SSU & 100°F
Stannic Chloride	SnCl <sub>4</sub>	1.21		D	D	D	D	D	D	D	D	A	A	A	A	A	A	A	
Stannous Chloride	SnCl <sub>2</sub>	2.71		D	D	D	D	D	D	D	D	A	A	A	A	A	A	A	
Starch	(C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> )N	1.5		B	B	A	A	A	A	A	A	B	A	A	A	A	A	A	Visc. 100– 100,000 SSU

Note 1: Avoid dissimilar metals.

Note 3: C or D rating given due to possible contamination of metered product by metal. Material compatibility may be satisfactory.



A - Excellent    B - Good    C - Poor  
 D - Not Recommended  
 Blank Space - Insufficient Information

Chemicals	Formula	Sp. Gr. (60°F)	Typical (60°F) Viscosity (CPS)	m	Material												Remarks						
					Aluminu	Bronze	Cast Iron	Carb.	Tungste	Steel	Carbon	304SS-1	316 SS	440CSS	Buna-N	EPR	Viton	Teflon	Ryton	Carbon	Peak	C-276	Hastello
Steam Condensate					A	A	A	A	A	A	A	D	A	C	A	A	A	A	A	A	A	A	
Stearic Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>16</sub> CO <sub>2</sub> H	0.839			B	C	C	C	C	A	A	B	B	B	A	A	A	A	A	A	A	A	
Styrene	C <sub>6</sub> H <sub>5</sub> CHCH <sub>2</sub>	0.904			A	B	A	A	A	A	A	D	D	B	A	A	A	A	A	A	A	A	
Sugar Solutions	Glucose		2.8 x 10 <sup>6</sup>		A	A	D	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	
Sulfate Liquors					D	D	B	A	B	B	B	B	B	B	A	A	A	A	A	A	A	A	
Sulfonic Acid	C <sub>6</sub> H <sub>5</sub> HSO <sub>3</sub>				D	B	D	C	D	B	B	B	B	B	A	A	A	A	A	B	A	A	
Sulfur	S	2.06	10.94		A	D	A	B	A	A	A	B	D	D	C	A	A	A	A	All Iron Up to 350°F			
Sulfur Dioxide	SO <sub>2</sub>		@ 120°C		B	B	B	B	B	B	D	D	D	B	A	A	A	A	A	A	A	A	
Sulfuric Acid (0–7%)	H <sub>2</sub> SO <sub>4</sub>	1.074			D	D	D	C	D	D	B	D	D	D	A	A	A	A	A	A	A	A	
Sulfuric Acid (30%)	H <sub>2</sub> SO <sub>4</sub>	1.228			D	D	D	D	D	D	D	D	D	D	A	A	A	A	A	A	A	Rubber or Glass-Lined Equip. Needed	
Sulfuric Acid (50%)	H <sub>2</sub> SO <sub>4</sub>	1.407			D	D	D	D	D	D	D	D	D	D	D	A	A	A	A	D	A	A	
Sulfuric Acid (85%)	H <sub>2</sub> SO <sub>4</sub>	1.790			D	D	B	D	B	B	A	D	D	D	A	A	D	D	D	A	A	A	
Sulfuric Acid (93%)	H <sub>2</sub> SO <sub>4</sub>	1.835	23.0		D	D	B	D	B	B	A	C	D	D	A	A	D	D	D	A	A	A	
Sulfurized Oil					B	D	B	B	B	B	B	B	B	D	D	D	A	A	A	A	A	A	
Tall Oil	Liquid Rosin				D	B	B	A	B	B	B	B	B	B	D	A	A	A	A	A	A	A	
Tallow—Oil					B		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Tar Oil	Creosote	1.04–1.10	12.0		B	A	B	A	B	A	A	A	A	D	A	A	A	A	A	A	A	A	
Tannic Acid (10%)	C <sub>14</sub> H <sub>10</sub> O <sub>9</sub>	1.04			C	B	C	C	C	A	A	B	A	A	A	A	A	A	A	A	A	A	
Tergitol Nonionic NPX	Phenyl Ether	1.063	373 cks			D	A	D	A	A	A					A	A	A	A	A	A	A	A
Tertiary Amyl Methyl Ether	C <sub>5</sub> H <sub>11</sub> OC <sub>4</sub> H <sub>9</sub>				A	A	A	A	A	A	A	A	A	D	D	A	A	A	A	A	A	A	
Tetrahydrofuran	C <sub>4</sub> H <sub>8</sub> O	0.880			A	A	A	A	A	A	A	A	D	A	D	A	A	A	A	A	A	A	
Tetra Methyl Benzene	(CH <sub>3</sub> ) <sub>4</sub> C <sub>6</sub> H <sub>2</sub>	0.896			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Tetrapropylene	C <sub>12</sub> H <sub>24</sub>	0.770			A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	A	
Textile Spirits		0.689			A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	A	
Titanium Sulfate (10%)	(TiSO <sub>4</sub> ) <sub>2</sub> ·9H <sub>2</sub> O	1.47			D	B	D	B	D	B	B	D					A		B	Hygroscopic			
Toluene	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>	0.866	0.59		A	A	A	A	A	A	A	A	D	D	A	A	A	A	A	A	A	A	
Toluene Diisocyanate	CH <sub>3</sub> C <sub>6</sub> H <sub>3</sub> (NCO) <sub>2</sub>	1.22	38–750 SSU		D	D	A	A	A	A	A	A	D	A	B	A	A	A	A	A	A	A	
Tomato Paste					B	C	C	A	C	A	A	A	D	A	D	A	A	A	A	A	A	A	
Tri-Chloro-Acetic Acid	CCl <sub>3</sub> COOH	1.62			D	D	D	D	D	D	D	B	B	C	A	A	A	A	A	Glass Linings Needed			
Trichloro Ethane (Dry)	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>	1.44	1.20		A	A	A	A	A	A	A	A	D	D	A	A	C	A	A	A	No Water		
Trichloroethylene	C <sub>2</sub> HCl <sub>3</sub>	1.45	0.55		A	B	B	A	B	B	B	B	D	D	A	C	A	A	A	A			
Triclene D	Trichloroethylene	1.45	0.55		A	B	B	A	B	B	B	B	D	D	A	C	A	A	A	A			
Tri-Decyl Alcohol	C <sub>12</sub> H <sub>25</sub> CH <sub>2</sub> OH	0.845			A	A	A	A	A	A	A	A	D	D	A	A	A	A	A	A			
Triethanol Amine	(HOCH <sub>2</sub> CH <sub>2</sub> ) <sub>3</sub> N	1.12	500 SSU		A	D	A	A	A	A	A	A	B	B	D	A	A	A	A	Note 1			
Triethylene Glycol	HO(C <sub>2</sub> H <sub>4</sub> O) <sub>3</sub> H	1.12	0.47		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
Trimethylamine	(CH <sub>3</sub> ) <sub>3</sub> N	0.662			A	D	A	A	A	A	A	A	B	A	D	A	A	A	A	Note 1			
Triethylene Tetraamine	Na <sub>3</sub> PO <sub>4</sub> ·10H <sub>2</sub> O	2.53			D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
Tri-Sodium Phosphate	Na <sub>3</sub> PO <sub>4</sub> ·10H <sub>2</sub> O	2.53			D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
Triton X-100	Surfactant		34.0		A	A	A	A	A	A	B	A			A	A	A	A	A	A			
Tuna Fish Oil					B	D	B	A	B	A	A	A	A	D	A	A	A	A	A	A	A	A	
Tung Oil	Wood Oil	0.936			B	B	B	A	B	A	A	A	A	D	A	A	A	A	A	A	A	A	
Turpentine	C <sub>10</sub> H <sub>16</sub>	0.87	1.48		A	B	B	A	B	A	A	A	A	D	A	A	A	A	A	A	A	A	
Urea	CO(NH <sub>2</sub> ) <sub>2</sub>	1.335			B	D	C	A	C	B	B	B	B	A	A	A	A	A	A	B	A	A	
Urea Formaldehyde					D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	

Note 1: Avoid dissimilar metals.



## MATERIAL SELECTION CHART

A - Excellent    B - Good    C - Poor  
 D - Not Recommended  
 Blank Space - Insufficient Information

Chemicals	Formula	Sp. Gr. (60°F)	Typical (60°F) Viscosity (CPS)	Aluminum	Bronze	Cast Iron	Tungsten Carb.	Carbon Steel	304SS-17-4PhSS	316 SS	440CSS	Buna-N	EPR	Viton	Teflon	Ryton	Carbon	Peek	Hastelloy C-276	Chemraz	Remarks
Uran-Poly-N	Fertilizer			D	D	A	A	A	A	A		A	A	A	A	A	A	A	Note 1		
Varnish	Spar	0.900	281.0	A	A	C	A	C	A	A	B	D	A	A	A	A	A	A			
Vegetable Oil				A	B	B	A	B	A	A	B	A	A	A	A	A	A	A	No Cad. Plating		
Vinyl Acetate	$\text{CH}_3\text{COOCHCH}_2$	0.933		D	D	A	B	A	A	A		A	D	A	A	A	A	A			
Vinyl Chloride	$\text{CH}_2\text{CHCl}$	0.912		D	D	A	B	A	A	A			A	A	D	A	A	A			
Vinegar	4% Acetic Acid	1.04		C	B	D	C	D	A	A	D	B	A	A	A	A	A	A			
Water (Distilled)	$\text{H}_2\text{O}$	1.00		A	A	D	B	D	A	A	A	A	D	A	A	A	A	A			
Water-Sea	$\text{H}_2\text{O}$	1.025		B	B	D	B	D	A	A	C	A	A	D	A	A	A	A	Note 1		
Water-Fresh	$\text{H}_2\text{O}$	1.00		A	A	C	B	C	A	A	A	A	D	A	A	A	A	A	Note 1		
Whiskey and Wine				D	A	D	A	D	A	A	A	A	A	A	A	A	A	A	SS Preferred		
Xylene	$\text{C}_6\text{H}_4(\text{CH}_3)_2$	0.868	0.620	A	A	A	A	A	A	A	D	D	A	A	A	A	A	A			
Zeolites	Hydrated Silicates			D	D	A	B	A	A	A	A	A	A	A	A	A	A	A	Note 1		
Zinc Sulfate	$\text{ZnSO}_4$	1.966		D	C	B	B	B	A	A	C	A	A	A	A	A	A	A			
Zinc Chloride	$\text{ZnCl}_2$	2.91		D	D	C	D	D	D	D	D	A	A	A	A	A	A	A			

Note 1: Avoid dissimilar metals.



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Do you  
know this?

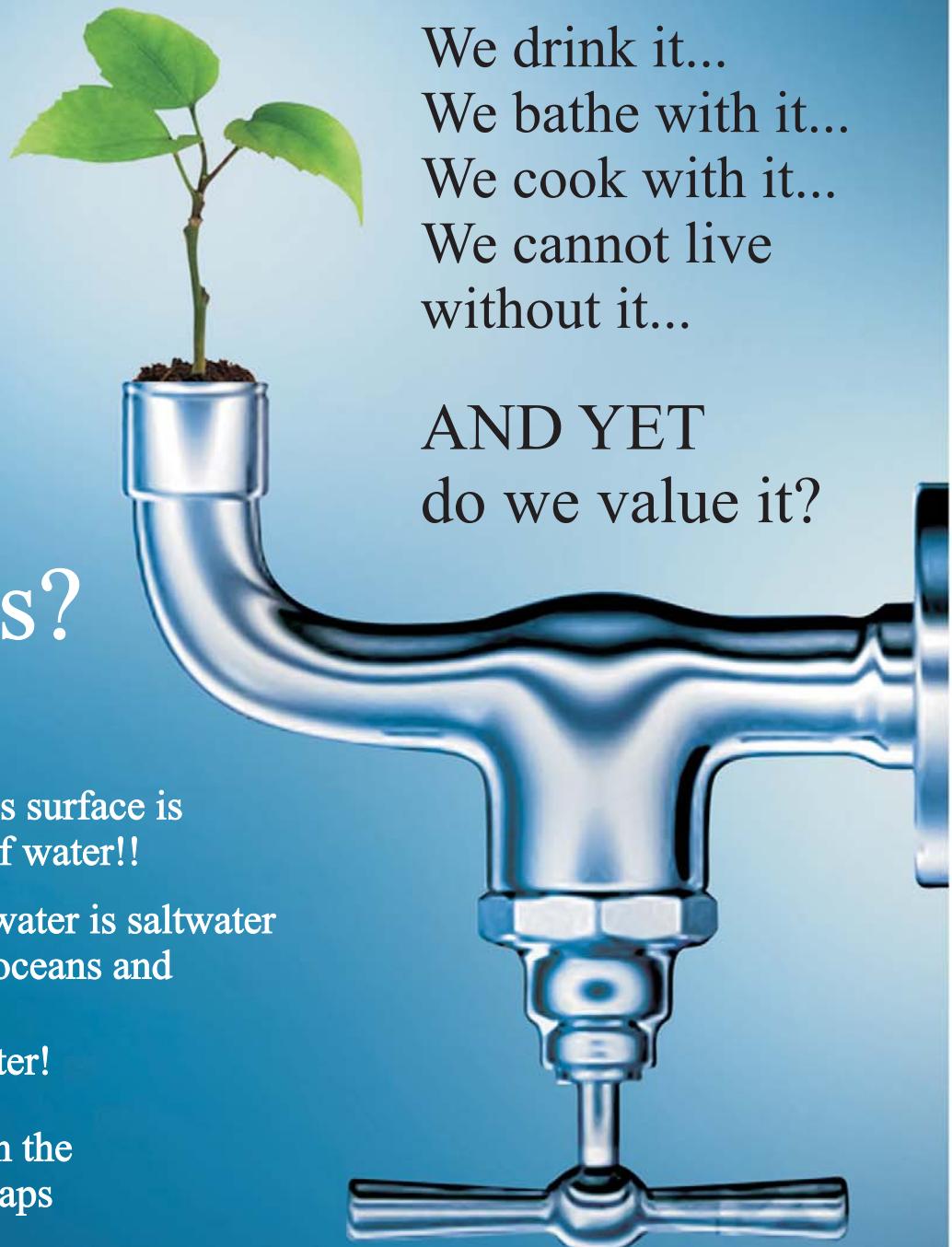
70% our planet's surface is  
made up of water!!

97% of earth's water is saltwater  
in seas & oceans and

3% is freshwater!

2% is frozen in the  
polar ice caps

&  
Only 1%  
is available for drinking!



We drink it...  
We bathe with it...  
We cook with it...  
We cannot live  
without it...

AND YET  
do we value it?

Save Water, Save Life



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