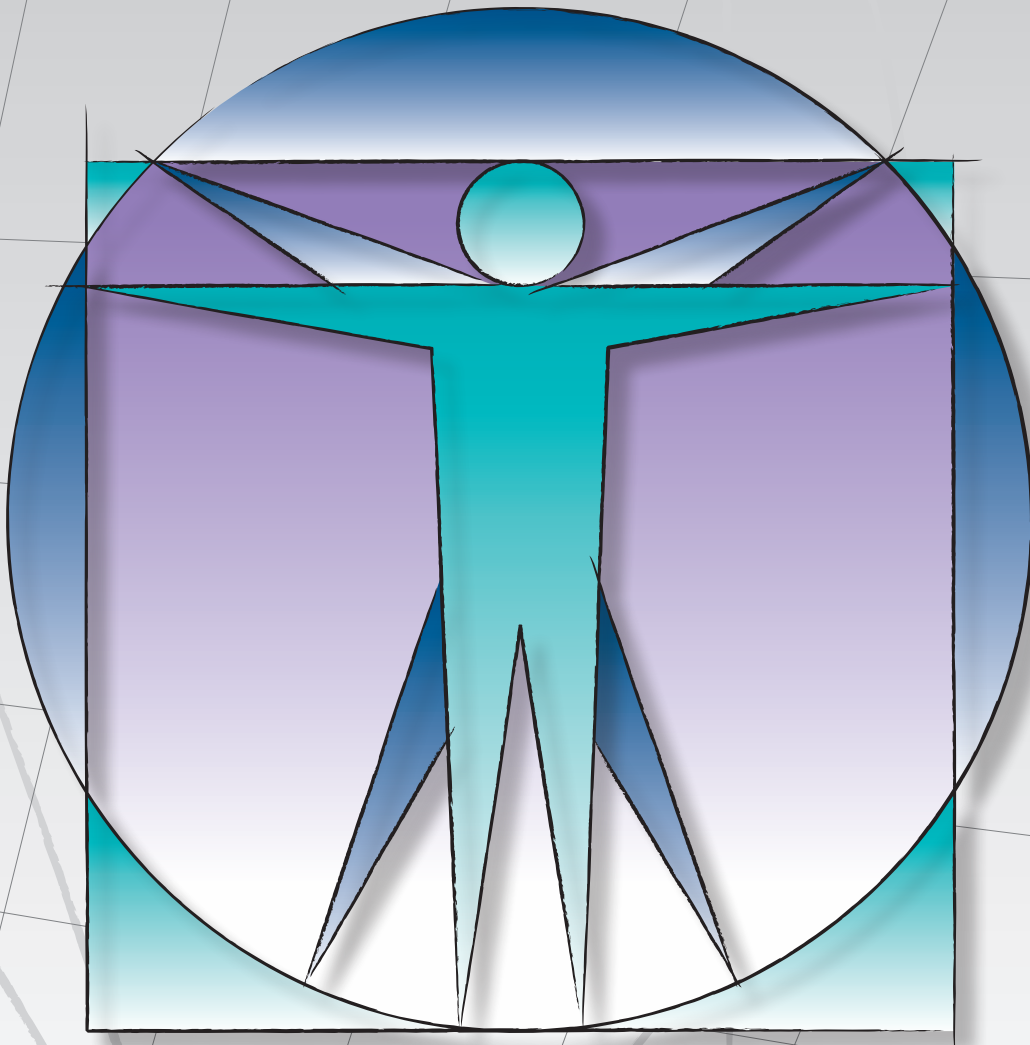


ARGAL

CHEMICAL PUMPS

ASTRA
AODD pumps



CHEMICAL RESISTANT GUIDE

CHEMICAL	FORMULA	NBR	EPDM	FKM	PTFE	Santoprene™	Polyurethane	Aluminium	Stainless Steel (316)	CFF PP	GFR PP	CFF ECTFE	UHMW PE
Ammonium Carbonate	(NH4)2CO3	-	+++	+++	+++	+++		++	++ 70% 212°	+++	+++	+++	++/120
Ammonium Casenite						+++			+++				
Ammonium Chloride (Sal Ammoniac)	NH4Cl	+++	+++	+++	+++	+++	+++	-		+++	+++	+++	+++/120
Ammonium Cupric Sulfate	(NH4)2Cu(SO4)2	+++		+++	+++								
Ammonium Dichromate	(NH4)2Cr2O7	+++	+++		+++	+++		+++					
Ammonium Fluoride	NH4F	++		+++ 20%	+++			++ 10%	++	++	-		
Ammonium Hydroxide (Aqua Ammonia)	NH4OH	++	+++	++	+++	+++	-	+++ 30%	+++ 50%	+++	+++	+++/200	+++/70
Ammonium Metaphosphate		+++	+++	+++	+++			++ 90%	++	+++	+++		
Ammonium Nitrate	NH4NO3	+++	+++	+++	+++	+++	-	++	+++	+++	+++	+++	+++/70
Ammonium Nitrite	NH4NO2	+++			+++	+++				+++ 70°F	+++ 70°F		
Ammonium Oxalate	(NH4OOC)2	+++				+++			+++				
Ammonium Persulfate	(NH4)2S2O8	+	++	+++	+++	+++	-	+	+++	+++	+++	+++/150	+++/120
Ammonium Phosphate, Di-Basic	(NH4)2HPO4	+++		+++	+++	+++		++	+++	+++	+++		
Ammonium Phosphate, Monobasic	(NH4)H2PO4	+++	+++	+++	+++	+++		-	++	+++	+++		+++
Ammonium Phosphate, Tri-Basic	(NH4)3PO4&3H2O	+++		+++	+++	+++		-	++	+++	+++		
Ammonium Sulfate	(NH4)2SO4	+++	+++	+++	+++	+++	+++	-	++ 80% 212°	+++	+++	+++	+++/70
1-Chloronaphthalene	C10H7Cl	-	-	+	+++	-		-	++	-	-		
1-Nitropropane	CH3(CH2)2NO2	-	+++	-	+++			+++	+++				
Acetaldehyde (Ethanal)	CH3CHO	-	+++	-	+++	++	-	+++	+++	+	+	+++/100	+
Acetamide (Acetic Acid Amide)	CH3CONH2	++	+++	++	+++	+++	-	+++	-	+++	+++	+++/200	+++/70
Acetate Solvents	CH3COOR	-		-	+++	++		+++	+++	-	-		
Acetic Acid _ 20%		+	+++	+	+++	++			+++	++	++		
Acetic Acid _ 30%		+	+++	-	+++	++		-	+++				
Acetic Acid _ 50%		+	+++	+	+++	++		-	+++				
Acetic Acid _ Glacial	CH3COOH	+	++	-	+++	++		++	+++	+	+		
Acetic Anhydride (Acetic Oxide)	(CH3CO)2O	+	++	-	+++	+++	-	++	+++	-	-	+++/200	-
Acetone (Dimethylketone)	CH3COCH3	-	+++	-	+++	++	-	++	+++	-	-	+++/200	+++/70
Acetone Cyanohydrin	(CH3)2C(OH)CN	-	-	-	+++	+++		++	++				
Acetonitrile (Methyl Cyanide)	CH3CN	+	+++	-	+++	+++		+++	+++				
Acetophenone (Phenyl Methyl Ketone)	C6H5COCH3	-	+++	-	+++	++	-	++	+++	+++ 70°F	+++ 70°F	+++/200	
Acetyl Acetone (2,4-Pentanedione)	CH3COCH2COCH3	-	+++	-	+++	++		-	++				
Acetyl Chloride	CH3COCl	-	+	++	+++	++	-	-	++	-	-	+++/100	-
Acetyl Salicylic Acid (Aspirin)	(CH3OCO) C6H4COOH		++		+++	+++		-	++				
Acetylene (Ethyne)	HC=CH	+++	+++	+++	+++	+		+++	+++	-	-	+++/200	-
Acetylene Tetrabromide (Tetra Bromoethane)	(CHBr2)2	-		+++	+++	-		-					
Acrolein (Acrylaldehyde)	H2C=CHCHO	++		+++	+++	+++		++	++				
Acrylonitrile (Vinyl Cyanide)	CH2=CHCN	-	-	-	+++	++		+++	+++	++	++		+++
Adipic Acid (1,4-Butanedicarboxylic Acid)	HOOC(CH2)4 (COOH)	++		+++	+++	++		++	++	+++	+++		+++
Alcohols	R-OH									+++	+++		
Alkazene (Chlorethyl or Polyisopropyl benzenes)		-	-	+++	+++	-	++						
Allyl Alcohol (2-Propen-1-ol)	CH2CHCH2OH	+++	+++	++	+++	++		+++	+++				
Allyl Bromide (3-Bromopropene)	H2C=CHCH2Br	-	-	++	+++			-					
Allyl Chloride (3-Chloropropene)	CH2=CHCH2Cl	-	-	++	+++			-	++	+++ 70°F	+++ 70°F		
Almond Oil (Artificial)		-	++	-	+++								
Alum (Aluminum Potassium Sulfate Dodecahydrate)	KAl(SO4)2 & 1&2H2O	+++	+++	-	+++	+++			++	+++	+++		
Aluminum Acetate (Burow's Solution)		+	+++	-	+++	+++	-		+	+++	+++		
Aluminum Ammonium Sulfate (Alum)	AlNH4(SO4)2	++		+++	+++					+++	+++		
Aluminum Bromide	AlBr3	+++			+++								
Aluminum Chloride	AlCl3	+++	+++	+++	+++	+++ 20%		-	++	+++	+++		
Aluminum Fluoride	AlF3	++	++	+++	+++	+++	+	+++ 50%	+	+++	-	+++	+++/70

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CHEMICAL	FORMULA	NBR	EPDM	FKM	PTFE	Santoprene™	Polyurethane	Aluminium	Stainless Steel (316)	CFF PP	GFR PP	CFF ECTFE	UHMW PE
Aluminum Hydroxide (Alumina Trihydrate)	Al(OH)3	+++	+++	+	+++	+++		++ 10%	++	+++	+++	+++	+++/120
Aluminum Nitrate	Al(NO3)3 & 9H2O	+++	+++	+++	+++	+++	+	-	+++ 10%	+++	+++	+++	+++/120
Aluminum Phosphate	AlPO4	+++	+++	+++	+++	+++							
Aluminum Potassium Sulfate (Potash Alum)	KAl(SO4)2	+++	+++	+++	+++	+++		+++ 10%	+++	+++	+++		
Aluminum Sodium Sulfate (Soda Alum)	NaAl(SO4)2	+++	+++	+++	+++	+++							
Aluminum Sulfate (Cake Alum)	Al2(SO4)3	+++	+++	+++	+++	+++	-	++ 30%	++ 50% 167°	+++	+++	+++	+++/120
Amines	R-NH2	-		-		+++	-	+++	+++	++	++	-	+/70
Ammonia Anhydrous, Liquid	NH3	++	+++	-	+++	+++		+++	+++	+++	+++		
Ammonia Gas _ Cold		+++		+++	+++	+++							
Ammonia Gas _ Hot		+		-	+++	+++							
Ammonia Liquors				-	+++	+++		+++	+++				
Ammonium Acetate	CH3CO2NH4			+++	+++	+++		++ 50%					
Ammonium Bicarbonate	NH4HCO3	+++	+++	+++	+++	++		++					
Ammonium Bifluoride _ 10%	NH4HF2	++			+++	+++		+	++	+++	-		
Ammonium Sulfide	(NH4)2S	+++		+++	+++			++	++				
Ammonium Sulfite	(NH4)2SO3H2O	+++		+++	+++			+	++	+++	+++		
Ammonium Thiocyanate	NH4SCN	+++	+++	+++	+++			+	+++ 50%				
Ammonium Thiosulfate	(NH4)2S2O3	+++	+++	+++	+++	+++		+++ 40%	+++ 10%				
Amyl (1-Pentanol)	C4H9CH2OH	++		++	+++	+++	+	++	+++	++	++	+++/200	-
Amyl Acetate (Banana Oil)	CH3CO2C5H11	-	+++	-	+++	++		+++	+++	-	-		
Amyl Alcohol (Pentyl Alcohol)	CH3(CH2)4OH	++	+++	+++	+++	++		+++	+++	+++	+++		
Amyl Borate	C5H11BO3	+++		+++	+++	++							
Amyl Chloride (Chloropentane)	CH3(CH2)4Cl	-	-	+++	+++	+		-	+++	-	-		
Amyl Chloronaphthalene		++		+++	+++	+				+++	+++		
Amyl Naphthalene	C15H18	-	-	+++	+++	+							
Amyl Phenol	C6H4(OH)C5H11	-		+++	+++			+++	+++				
Aniline (Aniline Oil) (Amino Benzene)	C6H5NH2	-	+	++	+++	++	+	++	+++	+++	+++		
Aniline Dyes		+	+	++	+++	++	-	++	++				
Aniline Hydrochloride	C6H5NH2HCl	+		++	+++	+++	-	-	-	-	-		-
Animal Fats & Oils		+++	++	+++	+++	+		+++	+++				
Animal Gelatin		+++	+++	+++	+++				+++				
Anisole (Methylphenyl Ether)	C6H5OCH3			-	+++			++	++				
Ansul Ether		+		-	+++	-	++						
Anthraquinone	C14H8O2				+++			++	++				
Anti-Freeze (Alcohol Base)		+++	+++	+++	+++	+++		+++	+++				
Anti-Freeze (Glycol Base, Prestone etc)		+++	+++	+++	+++	+++		+++	+++				
Antimony Pentachloride	SbCl5	-			+++			+++	+++				
Antimony Trichloride	SbCl3	++	+++	+++	+++			++	+++	+++	+++		
Aqua Regia (Nitric & Hydrochloric Acid)		-	-	++	+++	-		-	-	+	+		
Aroclor	PCB mixtures	+	-	+++	+++			+++	+++	-	-		
Aromatic Hydrocarbons	C6H5R	-		+++	+++	+	-	+++	+++				+
Aromatic Solvents (Benzene etc.)		+	-	++	+++				+++				
Arsenic Acid	AsH3O4	++	+++	+++	+++	+++	+	+++	++	+++	+++	+++	++/120
Arsenic Trichloride (Arsenic Butter)	AsCl3	+	-	-	+++	++		++	-				
Ascorbic Acid	C6H8O6			+++	+++			+++	+++				
Askarel (Pyranol)	PCB mixtures	++	-	+	+++	-	-	+++	+++				
Asphalt	Hydrocarbons	++	-	+++	+++	++	++	+++	+++	+++	+++		+++/70
Asphalt Topping	Hydrocarbons	+		+	+++				+++				
ASTM _ Ref #1 Oil (High Aniline)	Hydrocarbons	+++	-	+++	+++	+++		+++	+++				
ASTM _ Ref #2 Oil (Medium Aniline)	Hydrocarbons	+++	-	+++	+++	+++		+++	+++				

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ASTM _ Ref #3 Oil (Low Aniline)	Hydrocarbons	+++	-	+++	+++	++		+++	+++				
ASTM _ Ref #4 Oil (High Aniline)	Hydrocarbons	++	-	+++	+++			+++	+++				
ASTM _ Ref Motor Fuel A (Aliphatic)	Hydrocarbons	+++	-	+++	+++			+++	+++				
ASTM _ Ref Motor Fuel B (30% Aromatic)	Hydrocarbons	+++	-	+++	+++			+++	+++				
ASTM _ Ref Motor Fuel C (50% Aromatic)	Hydrocarbons	++	-	+++	+++			+++	+++				
Aviation Gasoline		+++	-	+++	+++			+++	+++				
Barbeque Sauce	Water, oils, spices	+++			+++				+++				
Barium Carbonate	BaCO3	+++	+++	+++	+++	+++		-	++	+++	+++	+++	++/120
Barium Chloride Dihydrate	BaCl2 & 2H2O	+++	+++	+++	+++			++ 50%	++ 212°F	+++	+++		
Barium Cyanide	Ba(CN)2	+		+++		+++			+++	-	-		++
Barium Hydroxide (Barium Hydrate)	Ba(OH)2	+++	+++	+++	+++	+++	+++	-	++ 50% 122°	+++	+++	+++	++/120
Barium Nitrate	Ba(NO3)2	+++			+++	+++		++	+++	+++	+++	+++/73	++/120
Barium Sulfate (Blanc Fixe)	BaSO4	+++	+++	+++	+++	+++	+++	++	++	+++	+++	+++	++/120
Barium Sulfide	BaS	+++	+++	+++	+++	+++	+++	-	++	+++	+++	+++	++/120
Beef Extract		+++		+++	+++				+++				
Beer		+	+++	+++	+++	+++	-	+++	+++	+++ 75°F	+++ 75°F	+++/150	+++/120
Beet Sugar Liquors (Sucrose)		+++	+++	+++	+++	+++	-	+++	+++	+++	+++	+++/150	
Benzaldehyde	C6H5CHO	-	++	-	+++	++	-	+++	+++	-	-	+++/73	+++/70
Benzene (Benzol)	C6H6	-	-	++	+++	+	-	++	+++ 167°F	-	-	+++/200	+/70
Benzene Sulfonic Acid	C6H5SO3H	+	+	+++	+++			+	+++	-	-		
Benzoic Acid (Benzene Carboxylic Acid)	C6H5COOH	-	++	+++	+++		-	++	++	-	-	+++/250	+++/70
Benzol (Benzene)	C6H6	-	-	++	+++	++	-	++	+++ 167°F	-	-		+/70
Benzoyl Chloride	C6H5COCl	-	-	++	+++			-	++				
Benzyl (Phenylcarbinol)	C6H5CH2OH	-		+++	+++	+++		++	+++	+++	+++		+++
Benzyl Acetate	CH3COZ CH2C6H5	-		-	+++			+++	+++				
Benzyl Alcohol	C6H5CH2OH	-	+	+++	+++			+++	+++	+++	+++		
Benzyl Benzoate	C6H5CO2CH2C6H5	-	++	+++	+++	+		+++	++				
Benzyl Chloride (Chlorotoluene)	C6H5CH2Cl	-		+++	+++	+	-	-	++	-	-	+++/100	
Benzyl Dichloride (Benzal Chloride)	C6H5CHCl2	-			+++			-	+++				
Biphenyl (Diphenyl)	C6H5C6H5	-	-	+++	+++			+++					
Bismuth Subcarbonate (Bismuth Carbonate)	(BiO)2CO3	+++	+++	+++	+++				++ 10%				
Black Sulfate Liquor		++	+++	+++	+++			+	+++				
Blast Furnace Gas	CO,H2,CH4,CO2,N2	+		+++	+++	+++	-						
Bleach Solutions	Water, chlorine, oxygen	-	+++	++	+++	++	-	-	++	-	-	+++	+++/70
Borax (Sodium Borate)	B4Na2O7	++	+++	+++	+++	+++		++	+++	+++	+++		
Bordeaux Mixture	Copper sulfate salts	+++	+++	++	+++	+++	-		+++				
Boric Acid (Boracic Acid)	H3BO3	+++	+++	+++	+++	+++	+++	+++	+++ 30%	+++	+++	+++	+++/120
Brake Fluid (Non-Petroleum Base)	Silicones or glycols	-	+++		+++	+++		+++	+++	-	-		
Brewery Slop		+++		+++	+++	+++			+++				
Brine (Sodium Chloride)	Salt water	+++	+++	+++	+++		+++		+++	+++	+++	+++	
Bromine _ Anhydrous	Br2	-	+	+++	+++	+		++	-	-	-		
Bromine Trifluoride	BrF3	-	-	-	+++	+		+++	++				
Bromine Water		-	-	++	+++	++		-	-	-	-		
Bromobenzene	C6H5Br	-	-	++	+++	-	-	-	+++	-	-	+++/73	
Bromochloromethane	BrCH2Cl	-	++	+	+++			-	++				
Bromotoluene	C6H4BrCH3	-		++	+++			-	+++				
Bronzing Liquid		-	++	-	+++	+++			+++				
Bunker Oil (Fuel) #5, #6 & C	Hydrocarbons	+++	-	+++	+++	++	++	+++	+++				
Butadiene	C4H6	-	+	+	+++	+	-	+++	+++	-	-	+++/200	-
Butane (LPG) (Butyl Hydride)	C4H10	+++	-	+++	+++	+	+++	+++	+++	-	-	+++/200	+/70

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Butter	Fats	+++	+++	+++	+++	++	+++	+++	+++				
Buttermilk	Fats, water	+++		+++		+++		+++	+++	+++	+++		+++/70
Butyl (Butanol)	C3H7CH2OH	+++		+++	+++	+++	-	++	+++	++	++		+++/72
Butyl Acetate	CH3CO2(CH2)3CH3	-	++	-	+++	++	+	+++	+++	-	-	+++/150	+/70
Butyl Acetyl Ricinoleate	C24H44O5	+	+	++	+++	++	-		+++				
Butyl Acrylate	CH2CHCO2C4H9	-	-	-	+++	+			+++				
Butyl Alcohol (Butanol)	CH3(CH2)3OH	+++	++	+++	+++	+++		+++	+++	+++	+++		
Butyl Amine (Aminobutane)	CH3(CH2)2CH2NH2	++	-	-	+++	+++	-	+++	+++	-	-		
Butyl Benzoate	C6H5COO(CH2)3CH3		++	+++	+++	+		++	+++				
Butyl Bromide	CH3(CH2)2CH2Br	-		++	+++				+++				
Butyl Butyrate	CH3(CH2)2 CH2CO2C4H9	-		-	+++			+++	+++				
Butyl Carbitol	CH3(CH2)3OCH CH2OCH2CH2OH	+++	+++	+++	+++	++							
Butyl Cellosolve	HOCH2CH2OC4H9	++		+	+++	+++	-					+++/73	
Butyl Chloride (Chlorobutane)	CH3(CH2)3CL	-		+++	+++			-	++	-	-		
Butyl Ether (Dibutyl Ether)	(CH3(CH2)3)2O	+++		+	+++			+++	+++	-	-		
Butyl Oleate	C22H42O2		+	+++	+++	+							
Butyl Stearate	CH3(CH2)16 CO2(CH2)3CH3	+++	+	++	+++	+		++	++			+++/73	
Butylene (Butene)	C4H8	++	-	++	+++	-	-	+++	+++	-	-	+++	++/70
Butyraldehyde	CH3(CH2)2CHO	-	+	-	+++	+		+++	+++				
Butyric Acid	CH3(CH2)2CO2H	+	+	+	+++	+++		+++	++	+++	+++		
Butyric Anhydride	(CH3CH2CH2CO)2O	+			+++			+++	+++				
Butyronitrile	CH3CH2CH2CN	-	+++		+++								
Calcium Acetate Hydrate	Ca(CH3COO)2 H2O	++	+++	-	+++			+	++				
Calcium Bisulfite	Ca(HSO3)2	+++	-	+++	+++			-	+++ 90%	+++	+++		
Calcium Carbonate (Chalk)	CaCO3	+++	+++	+++	+++	+++		+	++	+++	+++	+++	++/70
Calcium Chlorate	Ca(ClO3)2	+++	+++	+++	+++			++ 30%	++ 30%	+++	+++		
Calcium Chloride (Brine)	CaCl2 & 6H2O	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	++/70
Calcium Hydrosulfide (Calcium Sulfhydrate)	Ca(HS)2&6H2O	+++		+++	+++	+++							
Calcium Hydroxide (Slaked Lime)	Ca(OH)2	+++	+++	+++	+++	+++	+++	-	++ 50%	+++	+++	+++	+++/120
Calcium Hypochlorite 20% (Calcium Oxichloride)	Ca(ClO)2	+	++	++	+++	+++		-	++	+++	+++		
Calcium Nitrate	Ca(NO3)2	+++	+++	+++	+++	+++	+++	++ 40% 212°	++ 40% 212°	+++	+++	+++	+++/70
Calcium Oxide (Unslaked Lime)	CaO	+++	+++		+++	+++		+++	+++				
Calcium Silicate	Ca2SiO4	+++		+++	+++			+++	++				
Calcium Sulfate (Gypsum)	CaSO4	+++	+++	+++	+++	+++		+	+++ 10%	+++	+++	+++	++/70
Calcium Sulfide	CaS	+++	+++	+++	+++	+++	+++	+++ 20%	++	+++ 120°F	+++ 120°F		
Calcium Sulfite	CaSO3&2H2O	+++		+++	+++			++ 10%	+++ 10%				
Calgon	(NaPO3)6	+++		+++		+++			+++	+++	+++		
Cane Juice	Sucrose, water	+++			+++	+++	-	++	+++	-	-		
Cane Sugar Liquors	Sucrose, water	+++	+++	+++	+++	+++	-	+++	+++	+++	+++	+++/150	
Capryl Alcohol (Octanol)	CH3(CH2)6CH2OH	+++	+	++	+++			+++	+++				
Caprylic Acid (Octanoic Acid)	CH3(CH2)6 COOH	+			+++			+++	+++				
Carbamate	H2NCO2R	+	+	+++	+++	+++	-						
Carbitol	CH3CH2OCH2CH2OCH2CH2OH	++	+	+	+++	++	-	+++	+++				
Carbolic Acid (see Phenol)	C6H5OH	-	+	+++	+++	+++		++	++	+	+		
Carbon Dioxide (Carbonic Acid Gas)	CO2	+++	++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++/70
Carbon Disulfide (Carbon Bisulfide)	CS2	-	-	+++	+++	-	+	+++	+++ 90%	-	-	+++/200	+/70
Carbon Monoxide	CO	+	+	+	+++	+++	+++	+++	+++	+++	+++	+++/150	+++/120
Carbon Tetrachloride (Tetrachloromethane)	CCL4	+	-	+++	+++	-	+	-	++	-	-	+++/200	-
Carbonated Beverages	CO2/H2O	+++			+++	+++		+	+++	+++	+++		
Carbolic Acid (liquid)	H2CO3	++		+++	+++	+++	+++	+++	++	+++	+++	+++	++/120

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CHEMICAL	FORMULA	NBR	EPDM	FKM	PTFE	Santoprene™	Polyurethane	Aluminium	Stainless Steel (316)	CFF PP	GFR PP	CFF ECTFE	UHMW PE
Casein	a phosphoprotein	+++	+++	+++	+++			++	++				
Castor Oil	A mixture of fatty acids	+++	++	+++	+++	++		+++	+++				
Catsup (Ketchup)		+++		+++	+++	+++		++	+++	+++	+++		
Cellosolve (Glycol Ethers)	HOCH2CH2OR	+	+	++	+++	+	-	+++	+++	+++ 100°F	+++ 100°F	+++/200	
Cellulose Acetate	C8H12O5	++		+	+++			++	+++				
Cellulube Hydraulic Fluids (Phosphate Esters)		-	+++	++	+++	-		+++	+++				
Chlorinated Lime _ 35% Bleach	CA(ClO)2	+	+++	+++	+++	-			+++				
Chlorinated Water		+		+++	+++			+	++	++	++		
Chlorine Dioxide	ClO2	-	+	++	+++	-		++	-	-	-	+++/200	
Chlorine Trifluoride	ClF3	-	-	++	+++	-	-	+++	+++	-	-		
Chlorine, Anhydrous Liquid	Cl2	-		+++	+++	-		-	-	-	-		-
Chlorine, Dry	CL2	+		+++	+++	+		-	-	-	-		
Chlorine, Wet	Cl2/H2O	+	-	+++	+++	+		++	+++	-	-		
Chloroacetic Acid (Monochloroacetic Acid)	ClCH2COOH	-	++	+	+++			-	-	+++	+++		
Chloroacetone (Monochloroacetone)	ClCH2COCH3	-	+++	+	+++	+	-	-	++	-	-		-
Chlorobenzene (Monochlorobenzene)	C6H5Cl	-	-	+++	+++	+		-	++	-	-		
Chlorobromomethane	ClCH2Br	-		+++	+++	-	-	-	++	-	-		+++
Chlorobutadiene (Chloroprene)	C4H5CL	-	-	+++	+++	+	-	-	++	-	-		
Chloroform	CHCl3	-	-	+++	+++	-	+	-	+++	-	-	+++/200	+/70
Chlorosulfonic Acid	HSO3CL	-	-	-	+++	+++	-	++	++	-	-		-
Chloroethene (Chlorinated Solvents)	CH3CCL3	-		+	+++			-	+++				
Chlorotrifluoroethylene	C2H2ClF3	-			+++			++	++				
Chocolate syrup	Corn syrup, water, sugar	+++			+++	+++			+++	+++	+++		
Chromic Acid _ 25%-50%	H2CrO4	-	+	+++	+++	+++		-	-	-	-		
Chromic Acid _ Over 50%	H2CrO4	-	+	+++	+++	+++		-	-	-	-		
Chromic Acid _ To 25%	H2CrO4	-	+++	+++	+++	+++		++ 10%	-	-	-		
Cider (Apple Juice)	Sucrose, water	+++		+++	+++	+++		++	+++				++
Cinnamon Oil	Cinnamic acid esters			+++	+++	+			+++				
Citric Acid	C6H8O7 H2O	++	+++	+++	+++	+++	+++	-	+++ 30%	++	++	+++	-
Citric Oils	Citric acid esters	+	++	+++	+++	+			+++	+++	+++		
Citrus Pectin Liquor		+++		+++	+++				+++				
Clorox		+		+++	+++	++			+++	++	++		
Clove Oil (Eugenol)	C10H12O2				+++	+			+++				
Cobalt Chloride	CoCl2&6H2O	+++	+	+++	+++	+++		-		+++	+++		
Coconut Oil (Coconut Butter)	Fatty acid mixture	++	+++	+++	+++	++		++	+++				
Cod Liver Oil (Fish Oil)	Glycerides, acids, esters	++	+++	+++	+++	+		+++	+++				
Coffee	Fatty oils, acids, ellulose, water	+++			+++	+++	-	+++	+++	+++	+++		
Coke Oven Gas	H2(&5&3%), CH4 (&2&6%), N2 (&1&1%),	+		+++	+++	++						+++	
Copper Acetate	Cu(c2H3O2)2 CuO &6H2O	++	+++		+++	+++	-	-	++ 10%				
Copper Chloride	CuCl2&2H2O	+++	+++	+++	+++	+++	+++	-	-	+++	+++	+++	
Copper Cyanide	CuCN	+++	+++	+++	+++	+++	+++	-	+++ 10%	+++	+++	+++	++/120
Copper Fluoroborate		++		+++	+++	+++			-				
Copper Nitrate Hexahydrate	Cu(NO3)2&6H2O	+++	+++	+++	+++			-	+++	+++	+++		
Copper Sulfate (Blue Copperas)	CuSO4&5H2O	+++	+++	+++	+++	+++ 5%		-	+++ 10%	+++	+++		
Copper Sulfide	CuS	+++		+++	+++								
Corn Oil (Maize oil)	Glycerides of fatty acids	+++	+	+++	+++	++		++	++	+++	+++		
Cotton Seed Oil		+++	+++	+++	+++	++		+++	+++	+++	+++		
Cream		+++		+++	+++	+++			+++	+++	+++		
Creosote, Coal-Tar (Tar Oil)	Hydrocarbon mixture	+++	-	+++	+++	++		++	++	-	-		
Creosote, Wood-Tar	Phenol mixture	+++	-	+++	+++				++	-	-		

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Cresylic Acid (Cresol)	C8H10O2	+	-	+++	+++	++	-	++	+++	-	-		++/70
Crotonaldehyde	CH3CHCHCHO	-	-	+++	+++			+++	+++				
Cumene (Isopropylbenzene)	C6H5CH(CH3)2	-	-	+++	+++			++	++				
Cutting Oil (Sulfur Base)		+++			+++			+++	+++				
Cutting Oil (Water Soluble)		+		+++	+++			+++	+++				
Cyclohexane	C6H12	++	-	+++	+++	+	++	++	++	-	-	+++	++/70
Cyclohexanol	C6H11OH	++	-	+++	+++	++		+	+++	++	++	+++	
Cyclohexanone	C6H10O	-	+	-	+++	+	-	++	++	-	-	+++/73	-
Cyclopentane	C5H10	++	-	+++	+++			++	++				
Cymene (Isopropyltoluene)	C10H14	+	-	+++	+++								
Decahydronaphthalene (Decalin)	C10H18	-	-	+++	+++								
Decanal	CH3(CH2)8CHO	-	-	-	+++								
Decane	CH3(CH2)8CH3	++	+	+++	+++	+	++			+++ 70°F	+++ 70°F		
Decyl Alcohol (Decanol)	C10H21OH	+++		++	+++								
Denatured Alcohol	Ethanol and denaturant	+++	+++	++	+++	++	-	++	+++	+++	+++		
Detergent Solutions		+++	+++	+++	+++	++		++	+++	+++	+++		
Developing Fluids & Solutions		+++	+	+++	+++	+++			+++				
Dextrose	C6H12O6	++	+++	+++	+++			+++	+++	+++	+++		
Diacetone (Tyranton)	(CH3)2C(OH) CH2COCH3	-	++	-	+++	+	++	+++	+++	-	-	+++/100	+++
Diacetone Alcohol (Diacetone)	(CH3)2COHCH2 COCH3	-	++	-	+++	++		+++	+++	-	-		
Dibenzyl Ether	(C6H5CH2)2O	-	++	+	+++	+	++	++	++				
Dibenzyl Sebecate	C24H30O4	-	+	++	+++	+	-						
Dibutyl Amine	(C4H9)2NH	+	-	-	+++	++			+++	-	-		
Dibutyl Mercaptan	(C4H9)2S	-	-	+++	+++	++							
Dibutyl Phthalate (DBP)	C6H4(CO2C4H9)2	-	+++	++	+++	++	+	+++	+++	-	-		
Dibutyl Sebecate (DBS)	C18H34O4	-	+	+	+++	++	-		+++	+	+	+++/200	
Dichloro Isopropyl Ether	C6H12OCl2	-	-	-	+++	-				-	-		
Dichloroacetic Acid	Cl2CHCOOH	-	-	-	+++								
Dichlorobutane	C4H8Cl2	-	-	+++	+++			-	++				
Dichloroethyl Ether	[ClCH2CH2]2O	-	-	-	+++			++					
Dicyclohexylamine	(C6H11)2NH	-	-	++	+++	++	-						
Diesel Oil (Fuel ASTM #2)	Hydrocarbons	+++	-	+++	+++	+		+++	+++	++	++		
Diester Synthetic Oils		++	-	+++	+++			+++	+++				
Diethanol Amine	(HOCH2CH2)2NH	++			+++				+++	+++	+++		
Diethyl Amine	(CH3CH2)2NH	+	+	-	+++			++	+++	+++	+++		
Diethyl Benzene	C6H4(C2H5)2	-	-	+++	+++		-						
Diethyl Carbonate	(C2H5O)2CO	-			+++	+							
Diethyl Ether (Ether)	(CH3CH2)2O	++	-	-	+++		+++	++	+++	-	-	+++/200	
Diethyl Phthalate (DEP)	C6H4(CO2C2H5)2	-		+	+++	++		+++	+++				
Diethyl Sebecate	C14H26O4	-	+	++	+++		-	+++	+++	+++ 120°F	+++ 120°F		
Diethylene Ether (Dioxane)	C4H8O2	-	+++	-	+++	++		+++	+++				
Diethylene Glycol (DEG)	HOCH2CH2OCH2CH2OH	+++	+++	+++	+++		-	+++	+++	+++	+++	+++/70	++/120
Diethylene Triamine	(NH2C2H4)2NH	++			+++	+++		+++	+++				
Diisobutyl Ketone	C4H9COC4H9	-	++	-	+++			+++	+++				
Diisobutylene	[HC=C(CH3)2]2	++		+	+++	+	-			+++	+++		
Diisodecyl Adipate (DIDA)	C26H50O4	-		+	+++								
Diisodecyl Phthalate (DIDP)	C28H47O4	-	+++	+	+++								
Diisooctyl Adipate (DIOA)	C22H42O4	-		+	+++			+++	+++				
Diisooctyl Phthalate (DIOP)	C24H39O4	-		+	+++								
Diisooctyl Sebecate (DIOS)	C26H46O4	-	++	+++	+++								

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Diisopropyl Amine	[(CH ₃) ₂ CH] ₂ NH	++	-	-	+++	-	-	-	-	-	-	-	-
Diisopropyl Benzene	C ₄ H ₄ [CH(CH ₃) ₂] ₂	-	-	+++	+++	+	-	-	-	-	-	-	-
Diisopropyl Ketone	[(CH ₃) ₂ CH] ₂ CO	-	+++	-	+++	+	-	-	+++	-	-	+++/73	-
Dimethyl Ether	CH ₃ OCH ₃	+++	-	+++	+++	-	-	++	++	-	-	-	-
Dimethyl Phthalate	C ₆ H ₄ (CO ₂ CH ₃) ₂	-	+	+	+++	+++	-	-	-	-	-	+++/200	-
Dimethyl Sulfate	(CH ₃) ₂ SO ₄	-	-	-	+++	-	-	-	-	-	-	-	-
Dimethyl Sulfide	(CH ₃) ₂ S	-	-	-	+++	-	-	+++	+++	-	-	-	-
Dinitrotoluene (DNT)	CH ₃ C ₆ H ₃ (NO ₂) ₂	-	-	+	+++	++	-	-	+++	-	-	-	-
Diocetyl Phthalate (DOP)	C ₂₄ H ₃₈ O ₄	-	++	++	+++	+	+	+++	+++	-	-	+++/200	-
Diocetyl Sebecate	C ₂₆ H ₅₀ O ₄	-	+	+	+++	+	++	+++	+++	-	-	-	-
Dioxolanes (Dioxolans)	Glycol ethers	-	++	+	+++	+	-	-	-	-	-	-	-
Dipentene (Limonene)	C ₁₀ H ₁₆	+	-	+++	+++	+	-	+++	+++	-	-	-	-
Diphenyl Oxides (Phenyl Ether)	C ₆ H ₅ OC ₆ H ₅	-	+	+++	+++	+	-	++	+++	-	-	-	-
Dipropyl Ketone (Butyrene)	(C ₃ H ₇) ₂ CO	-	-	-	+++	-	-	-	-	-	-	-	-
Dipropylamine	(CH ₃ CH ₂ CH ₂) ₂ NH	++	-	-	+++	-	-	-	-	-	-	-	-
Dipropylene Glycol	(C ₃ H ₆ OH) ₂ O	+++	-	+++	+++	-	-	-	-	+++	+++	-	-
Dispersing Oil #10		-	-	+	+++	-	-	+++	+++	-	-	-	-
Divinyl Benzene (DVB)	C ₆ H ₄ (CH=CH ₂) ₂	-	-	+++	+++	-	-	-	-	-	-	-	-
Dodecyl Benzene (Alkane)	C ₆ H ₅ (CH ₂) ₁₁ CH ₃	-	-	+++	+++	-	-	+++	+++	-	-	-	-
Dow Corning (Silicones)	[(CH ₃) ₂ SiO] ₂	+++	-	+++	+++	-	-	+++	+++	-	-	-	-
Dowtherm (Biphenyl & Phenyl Ether)	(C ₆ H ₅) ₂ and (C ₆ H ₅) ₂ O	-	-	+++	+++	-	-	+++	+++	-	-	-	-
Drycleaning Fluids	Chlorinated hydrocarbons	+	-	+++	+++	-	-	+++	+++	-	-	-	-
Dyes		-	-	+++	+++	++	-	+++	+++	-	-	-	-
Epichlorohydrin	C ₃ H ₅ ClO	-	++	-	+++	++	-	+++	+++	+++	+++	-	-
Epsom Salts (Magnesium Sulfate)	MgSO ₄ & 7H ₂ O	+++	-	+++	+++	+++	-	+++	+++	+++	+++	-	-
Ethane	C ₂ H ₆	+++	-	+++	+++	+	++	+++	+++	+	+	-	-
Ethanolamine (Aminoethanol)	H ₂ NCH ₂ CH ₂ OH	++	++	-	+++	+++	+	+++	+++	-	-	-	-
Ethyl (Ethanol)	CH ₃ CH ₂ OH	+++	+++	++	+++	++	-	++	+++	+++ 100°F	+++ 100°F	-	+++
Ethyl Acetate	CH ₃ COOC H ₂ CH ₃	-	++	-	+++	+	-	++	+++	+	+	+++/150	+++
Ethyl Acetoacetate (Acetoacetic Ester)	CH ₃ COCH ₂ COOCH ₂ CH ₃	-	+	-	+++	+	+	+++	+++	-	-	+++/73	-
Ethyl Acrylate	CH ₂ CHCO ₂ CH ₂ CH ₃	-	+	-	+++	+	-	+++	+++	++	++	+++/150	-
Ethyl Alcohol (Ethanol)	CH ₃ CH ₂ OH	+++	+++	++	+++	+++	-	+++	+++	+++ 100°F	+++ 100°F	-	-
Ethyl Aluminum Dichloride	CH ₃ CH ₂ AlCl ₂	-	-	++	+++	-	-	++	+++	-	-	-	-
Ethyl Amine (Monoethylamine)	CH ₃ CH ₂ NH ₂	-	+++	-	+++	-	-	++	+++	-	-	-	-
Ethyl Benzene	CH ₃ CH ₂ C ₆ H ₅	-	-	+++	+++	+	-	++	++	-	-	-	-
Ethyl Benzoate	C ₆ H ₅ CO ₂ CH ₂ CH ₃	-	+	+++	+++	+	-	+++	+++	++	++	-	+/120
Ethyl Bromide (Bromoethane)	CH ₃ CH ₂ Br	-	++	-	+++	-	-	+++	+++	-	-	-	-
Ethyl Butyl Acetate	CH ₃ CO ₂ CH ₂ CH(C ₂ H ₅) ₂	-	-	-	+++	-	-	-	-	-	-	-	-
Ethyl Butyl Alcohol	CH ₃ CH(C ₂ H ₅) (CH ₂) ₂ OS	+++	+++	++	+++	+++	-	-	-	-	-	-	-
Ethyl Butyl Ketone	CH ₃ CH ₂ COC ₄ H ₉	-	-	-	+++	-	-	-	-	-	-	-	-
Ethyl Butyraldehyde	C ₆ H ₁₂ O	-	-	-	+++	-	-	-	-	-	-	-	-
Ethyl Butyrate	CH ₃ CH ₂ CH ₂ CO ₂ C ₂ H ₅	-	-	+	+++	-	-	++	+++	++	++	-	-
Ethyl Caprylate	CH ₃ (CH ₂) ₆ CO ₂ C ₂ H ₅	-	-	-	+++	-	-	-	-	-	-	-	-
Ethyl Cellosolve	C ₂ H ₅ O(CH ₂) ₂ OH	+	++	-	+++	++	-	-	-	-	-	-	-
Ethyl Cellulose (Ethocel)		++	++	+	+++	+++	++	++	++	+	+	-	-
Ethyl Chloride (Chloroethane)	C ₂ H ₅ Cl	+++	+++	+++	+++	+	+	-	+++	-	-	+++	+/70
Ethyl Chlorocarbonate (Ethyl Chloroformate)	ClC ₁ C ₂ H ₅	-	-	+++	+++	+++	-	-	-	-	-	-	-
Ethyl Cyanide (Propionitrile)	C ₂ H ₅ CN	-	-	-	+++	-	-	-	-	-	-	-	-
Ethyl Formate	HCOOCH ₂ CH ₃	-	+	+++	+++	++	-	++	++	-	-	+++/120	-
Ethyl Iodide	CH ₃ CH ₂ I	-	-	-	-	-	-	-	-	-	-	-	-

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Ethyl Isobutyrate	(CH3)2 CHCOOCH2CH3	-	-	-	+++	-	-	-	-	-	-	-	-
Ethyl Mercaptan (Ethanethiol)	CH3CH2SH	-	-	++	+++	+	-	++	++	-	-	-	-
Ethyl Oxalate	C2H5O2C CO2C2H5	-	+++	++	+++	++	+++	-	-	-	-	-	-
Ethyl Pentachlorobenzene	C2H5C6Cl5	-	-	+++	+++	-	-	-	-	-	-	-	-
Ethyl Propionate	CH3CH2 COOCH2CH3	-	-	-	+++	-	-	+++	+++	-	-	-	-
Ethyl Silicate	Si(OCH2CH3)4	+++	+++	+++	+++	++	-	++	+++	-	-	-	-
Ethyl Sulfate	C2H5OSO2OH	+++	-	+++	+++	++	-	-	-	-	-	-	-
Ethylene (Ethene)	C2H4	++	+	+++	+++	+	-	+++	+++	-	-	-	-
Ethylene Chlorohydrin	C1CH2CH2OH	-	+++	++	+++	+	-	+++	+++	-	-	+++/73	-
Ethylene Diamine	(CH2)2(NH2)2	++	+++	-	+++	+++	-	+	+++	+++	+++	+++/73	+++
Ethylene Dibromide (Ethylene Bromide)	Br(CH2)2Br	-	+	++	+++	-	-	-	++	-	-	-	-
Ethylene Dichloride (Dutch Oil)	Cl(CH2)2Cl	-	-	++	+++	-	-	-	++	-	-	+++/73	-
Ethylene Glycol (Ethylene Alcohol, Glycol)	(CH2OH)2	+++	+++	+++ 70°F	+++	+++	++	+++	+++	+++ 120°F	+++ 120°F	+++	+++/120
Ethylene Glycol Monobutyl Ether (Butyl Cellosolve)	C4H9OCH2CH2OH	++	++	+	+++	-	-	+++	+++	-	-	-	-
Ethylene Glycol Monoethyl, Ether Acetate (Cellosol)	C2H5O(CH2)2 O2CCH3	+	++	+	+++	-	-	+++	+++	-	-	-	-
Ethylene Glycol Monomethyl, Ether (Methyl Cellosol)	CH3O(CH2)2OH	+	++	-	+++	-	-	++	+++	-	-	-	-
Ethylene Oxide	(CH2)2O	-	-	+	+++	+++	+	+++	+++	+	+	+++	+++
Ethylene Trichloride (Trichloroethene)	C1CHCCl2	-	-	+++	+++	-	-	-	+++	-	-	-	-
Ethylhexyl Acetate	CH3CH2CH2 CH(C2H5)C4h9	-	-	-	+++	-	-	-	-	-	-	-	-
Ethylhexyl Alcohol (Ethylhexanol)	C8H17OH	+++	-	++	+++	-	-	+++	+++	-	-	-	-
Ethylidene Chloride	CH3CHCl2	-	-	-	+++	-	-	-	+++	-	-	-	-
Fatty Acids	CnH2n+1COOH	++	-	+++	+++	++	-	+++ 90%	+++	++	++	+++	-
Ferric Chloride	FeCl3	+++	+++	+++	+++	+++	-	-	-	+++	+++	+++	+++/70
Ferric Hydroxide	FeHO2	++	-	+	+++	-	-	-	+++	-	-	-	-
Ferric Nitrate	Fe(NO3)3	+++	+++	+++	+++	+++	+++	-	++	+++	+++	+++	+++/120
Ferric Sulfate	Fe2(SO4)3	+++	+++	+++	+++	+++	-	+	++	+++	+++	+++	+++/120
Ferrous Chloride	FeCl2	+++	+++	+++	+++	+++	-	-	++ 30%	+++	+++	+++	+++/120
Ferrous Sulfate	FeSO4	+++	+++	+++	+++	+++	-	+++ 10%	++	+++	+++	+++	+++/120
Fish Oil		+++	-	+++	+++	++	-	-	-	-	-	-	-
Fluoboric Acid	HBF4	+++	+++	+	+++	+++	-	-	+++ 30%	+++	-	+++/73	+++/120
Fluorine (Liquid)	F2	-	+	++	+++	-	-	+++	+++	-	-	-	-
Fluorobenzene	FC6H5	-	-	+++	+++	+	-	-	-	-	-	-	-
Fluorolube (Fluorocarbon Oils)	FxCyHz	+	+++	++	+++	-	-	+++	+++	-	-	-	-
Fluosilicic Acid (Sand Acid)	H2SiF6	++	++	+++	+++	+++	++	-	+++ 212°F	+++	-	+++	+++/120
Formaldehyde (Formalin)	HCHO	++	+++	+++	+++	+++	-	+++	+++ 90%	+++	+++	+++/200	++
Formamide	HCONH2	+++	+++	-	+++	-	-	+++	++	-	-	-	-
Formic Acid	HCOOH	+	++	+	+++	+++	-	-	+	+++ 70°F	+++ 70°F	+++/250	-
Freon 11 (Trichlorofluoromethane)	CCl3F	+	-	++	+++	-	-	++	+++	++	++	+++/150	+
Freon 113 (Trichlorotrifluoroethane) (TF)	Cl3CCF3	++	-	++	+++	-	++	++	+++	-	+	+++/150	-
Freon 114 (Dichlorotetrafluoroethane)	C2Cl2F4	+++	+	+++	+++	-	+++	++	+++	-	-	+++/150	-
Freon 114B2 (Dibromotetrafluoroethane)	C2Br2F4	++	-	++	+++	-	-	-	-	-	-	-	-
Freon 115 (Chloropentafluoroethane)	C2ClF5	+++	+++	++	+++	-	-	+++	-	-	-	-	-
Freon 12 (Dichlorodifluoromethane)	Cl2CF2	++	++	++	+++	-	-	+++	+++	-	-	-	-
Freon 13 (Chlorotrifluoromethane)	ClCF3	+++	+++	+++	+++	-	-	+++	+++	-	-	-	-
Freon 13B1 (Bromotrifluoromethane)	BrCF3	+++	+++	+++	+++	-	-	-	-	-	-	-	-
Freon 14, (Tetrafluoromethane)	CF4	-	++	-	+++	-	-	-	-	-	-	-	-
Freon 21 (Dichlorofluoromethane)	FCHCl2	-	-	-	+++	-	-	+++	-	-	-	+++/150	-
	HCClF2	-	+	-	+++	-	-	+++	+++	-	-	-	-
Fruit Juices	Water, sucrose	+++	+++	+++	+++	+++	-	+++ 10%	+++	+++	+++	-	-
Fuel Oils (ASTM #1 thru #9)	Hydrocarbons	+++	-	+++	+++	+	-	+++	+++	+	+	-	-

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CHEMICAL	FORMULA	NBR	EPDM	FKM	PTFE	Santoprene™	Polyurethane	Aluminium	Stainless Steel (316)	CFF PP	GFR PP	CFF ECTFE	UHMW PE
Fumaric Acid (Boletic Acid)	HOOCCH = CHCOOH	+	-	+++	+++	+++							
Furan (Furfuran)	C4H4O	-	-	+	+++	+				+	+		
Furfural (Ant Oil)	C5H4O2	-	++	+	+++	+	-	+++	+++ 20%	-	-	+++/200	-
Furfuryl Alcohol	C5H6O2	-	++	-	+++			+++	+++				
Fusel Oil (Grain Oil)	(CH3)2 CHCH2CH2OH	+++	+++	+++	+++								
Gallic Acid	C6H(OH)3 COOH	++	++	+++	+++	++	-	+++ 20%	++	+++ 70°F	+++ 70°F	+++/150	+++
Gasoline (Petrol)	Hydrocarbons	+++	-	+++	+++	+		+++	+++	+	+		
Gasoline (Unleaded)	C4 TO C12 hydrocarbons	-	-	+++	+++	+		+++	+++	+	+		
Gelatin	Water soluble proteins	+++	+++	++	+++	+++		+++	+++	+++	+++		
Ginger Oil	C17H26O4			+++	+++	+			+++				
Glauber's Salt (Sodium Sulfate Decahydrate)	NA2SO4 & 10H2O	+++	++	+++	+++								
Gluconic Acid	C6H12O7	+		+++	+++			++	+++ 50%				
Glucose (Corn Syrup)	C6H12O6	+++	++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++/120
Glue		+++	++	+++	+++	+++ PVA		+++	++	+++	+++		
Glycerol (Glycerine)	C3H8O3	+++	+++	+++	+++	+++		+++	+++	+++	+++		
Glycolic Acid	HOCH2COOH	+++		+++	+++	+++				+++	+++	+++/150	+++/120
Glycols		+++		+++	+++	+++	++	++	++	+++	+++	+++	
Gold Monocyanide	AuCN	+++		+++	+++	+++			-				
Grape Juice	Water, sucrose	+		+++	+++	+++			+++	+++	+++		++
Grapefruit Oil		-			+++				+++				
Grease	Hydrocarbons	+++		+++	+++	++		+++	+++				
Green Sulfate Liquor		++	+++	+++	+++	+++	+++	++	+++	+++	+++		
Halowax Oil	Chlorinated naphthalenes	-	-	+++	+++	-		-					
Heptanal	CH3(CH2)5CHO	+++		+++	+++			+++	+++	+++	+++		
Heptane	C7H16	+++	-	+++	+++	+	++	+++	+++	+ 140°F	+ 140°F	+++	++/70
Hexalin (Cyclohexanol)	C6H11OH	++	+	+++	+++								
Hexanal	CH3(CH2)4CHO	-	++	+	+++			+++	+++				
Hexyl (1-Hexanol)	C5H11CH2OH	+++		+++	+++	++	-	+++	+++	+++ 70°F	+++ 70°F		+++/120
Hexyl Alcohol (1-Hexanol)	C6H13OH	+++	+	+++	+++			+++	+++				
Hexylene Glycol (Brake fluid)	C6H12OH	+++	+	+++	+++			+++	+++				
Honey					+++	+++		+++	+++	+++	+++		++
Hydraulic Oil (Petroleum base)	Hydrocarbons	+++	-	+++	+++	-		+++	+++	-	-		
Hydrazine (Diamine)	H2NNH2	+	+++	-	+++	+++	-	+++	+++	-	-		
Hydrobromic Acid	HBr	-	+++	+++	+++	++	-	-	-	++	++	+++	++/70
Hydrochloric Acid 10% (Muratic)	HCl	++	+++	+++	+++	+++		-	-	+++	+++		
Hydrochloric Acid 20% (Muratic)	HCl	++	+++	+++	+++	+++		-	-	+++	+++		
Hydrochloric Acid 30% (Conc.)	HCl	+	+++	++	+++	+++		-	-	++	++		
Hydrocyanic Acid (Formonitrile)	HCN	++	+++	+++	+++	++	+	+++ 10%	+++	+++	+++	+++	+++/120
Hydrofluoric Acid (Conc.) Cold	HF	+	+	++	+++	-		+	-	-	-		
Hydrogen Fluoride _ Anhydrous	HF	-	+	+++	+++			-	-	+++	-		
Hydrogen Peroxide _ 10%	H2O2	+	++	+++	+++			+++	+++	+++	+++		
Hydrogen Peroxide _ 3%	H2O2	++	++	+++	+++	+++		+++	+++	+++	+++		
Hydrogen Peroxide _ 30%	H2O2	+	++	+++	+++			+++	++	+++	+++		
Hydrogen Peroxide _ 90%	H2O2	-	+	+++	+++			+++	+++				
Hydrogen Sulfide (Wet)	H2S	-	+++	-	+++	+++		+++ 90%	+++ 167°F	+++	+++		
Hydroquinone	C6H4(OH)2	+		+	+++	+++		+++ 90%	+++ 10%			+++/250	+++
Hydroxyacetic Acid _ 10%	HOCH2COOH	-			+++	+++ 70%		++	++				
Hypochlorous Acid	HClO	-	++	+++	+++	+++		-	-	+++	+++	+++	
Ink		+++		+++	+++	+++		+	+++				
Iodine	I2	++	++	+++	+++	+++		+++	-	+++	+++		

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Iodoform	CHI3		+++		+++	++		+++	+++				
Isoamyl Acetate	CH3CO2CH2CH2CH(CH3)2	-	++	-	+++			+++	+++				
Isoamyl Alcohol	(CH3)XCHCH2CH2OH	+++	+++	+++	+++								
Isoamyl Butyrate	C9H18O2	-	-	-	+++			+++	+++				
Isoamyl Chloride	(CH3)2 CHCH2CH2Cl	-	-	+++	+++			-					
Isobutyl (2-Methyl-1-Propanol)	C3H7CH2OH	+	+++	+++	+++	+++	-	++	+++			+++/70	+++/120
Isobutyl Acetate	CH3CO2CH2 CH(CH3)2	-	+	-	+++			+++	+++				
Isobutyl Alcohol (Isobutanol)	(CH3)2 CHCH2OH	++	+++	+++	+++			+++		+++	+++		
Isobutyl Amine	(CH3)2 CHCH2NH2	-	-	-	+++								
Isobutyl Chloride	(CH3)2 CHCH2Cl	-	-	++	+++			-	++				
Isobutyric Acid	(CH3)2 CHCOOH	-	+++		+++			+++					
Isododecane	(CH3)2 CH(CH2)8CH3	++	-	+++	+++			++	++				
Isooctane (Trimethylpentane)	C8H18	++	-	+++	+++	+	++	+++	+++	+++	+++	+++/73	++
Isopentane	(CH3)2CHCH2CH3	+++		+++	+++								
Isophorone	C9H14O	-	+	-	+++	++	++	+++	+++				
Isopropyl (2-Propanol)	H3CCH(OH)CH3	+		+++	+++	++	-	++	+++	+++	+++	+++/70	+++/70
Isopropyl Acetate	CH3COOCH(CH3)2	-	++	-	+++	++	+++	+++	+++	++	++	+++/70	+++/70
Isopropyl Alcohol (Isopropanol)	CH3CH(OH)CH3	++	++	+++	+++			+++ 90%	+++	+++	+++		
Isopropyl Amine	C3H7NH2	-	-	-	+++				+++				
Isopropyl Chloride	(CH3)2CHCl	-	-	++	+++	+	-	-	+++	-	-		
Isopropyl Ether	(CH3)2CHOCH(CH3)2	+	-	+	+++	+	++	++	+++	-	-	+++/73	++
Jet Fuels (JP1 to JP6) (ASTM-A, A1 & B)		+++	-	+++	+++	+		+++	+++	-	-		
Kerosine (Kerosene)	Hydrocarbons	+++	-	+++	+++	+		+++	+++	-	-		
Lacquer Solvents		-	-	-	+++	+	-	+++	+++	+	+	+++/70	+++
Lacquers		-	-	-	+++	+	-	+++	+++			+++/70	+++
Lactic Acid	CH3CHOHCOOH	++	+++	+++	+++	+++		+++	+++ 70%	+++	+++	+++/300	+++/70
Lactol (Aliphatic Naptha Solvent)	CH3CHOH CO2C10H7	+		+++	+++			+++	+++				
Lard (Lard Oil)	Olein, stearin	+++	-	+++	+++	++	+++	+++	++	+++	+++	+++	+++
Latex	Rubber emulsion	+++			+++			+++	+++	+++	+++		
Lauryl Alcohol (n-Dodecanol)	CH3(CH2)10 CH2OH	+++		++		+++		+++	+++	+++	+++		
Lavender Oil	Ester mixture	++	-	++	+++	++	-						
Lead Acetate (Sugar of Lead)	Pb(CH3CO2)2	++	+++	-	+++	+++	-	-	++			+++	+++/120
Lead Chloride	PbCl2				+++			-	++	+++	+++		
Lead Nitrate	Pb(NO3)2	++	+++	+++	+++			-	++	+++	+++		
Lead Sulfamate		++		+++	+++	+++			+++	+++	+++		+++/70
Lemon Oil (Cedro Oil)	Hydrocarbons			+++	+++	+		+++	+++				
Lignin Liquor	Blend of nautal aromatic oils	+++		+++	+++				+++				
Ligroin (Ligroine) (Benzine)	Petroleum fraction	+++	-	+++	+++	++	++		+++	-	-		+++
Lime Bleach		+++	+++	+++	+++	+++		-		++	++		
Lime Slurries		++		++	+++			++	++				
Lime Sulfur	CaS+CaSO4	+++	+++	+++	+++	++		-	+++	+++	+++	+++/150	
Lime, Soda (Slaked Lime & Soda Ash)	CaO	++	+++	++	+++	+++							
Limonene	C10H16	+	-	+++	+++								
Lindol (Tritolyl Phosphate)	C21H21O4P	-		++	+++	+++	+						
Linoleic Acid	C18H32O2	++	-	++	+++	++		+++	+++	+++	+++		+++
Linseed Oil (Flaxseed Oil)	Glycerides	+++	+	+++	+++	++		+++	+++	+++	+++		
Lithium Bromide	LiBrH2O	+++		+++	+++								
Lubricating Oils (Petroleum)	Hydrocarbons	+++	-	+++	+++	-		+++	+++	+	+		
Lye (Potassium Hydroxide)	KOH	+		++	+++	+++	+		+++	+++	+++		
Magnesium Carbonate	MgCO3	+++	+	+++	+++	+++		+++	++	+++	+++	+++	++

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Magnesium Chloride	MgCl2O	+++	+++	+++	+++	+++	+++	+++ 20%	++ 40%	+++	+++	+++	+++/70
Magnesium Hydroxide (Milk of Magnesia)	Mg(OH)2	++	+++	+++	+++	+++	+++	+++ 10%	+++	+++	+++	+++	+++/120
Magnesium Nitrate	Mg(NO3)2 & 6H2O	+++	+++	+++	+++	+++	+++	++ 50%	+++	+++	+++	+++	+++/120
Magnesium Oxide	MgO	+++		++	+++	+++		+++ 10%	+++				
Magnesium Sulfate (Epsom Salts)	MgSO4&7H2O	+++	+++	+++	+++	+++		+++ 70%	+++ 40%	+++	+++	+++	+++/120
Maleic Acid	(CHCOOH)2	-	-	+++	+++	+++		+++ 20%	++	+++	+++	+++/250	++/120
Maleic Anhydride	C4H2O3		-	+++	+++	+++		+++ 20%	+++				-
Malic Acid (Apple Acid)	C4H6O5	++	-	+++	+++	+++		++	+++			+++/250	++/120
Maple Sugar Liquors (Sucrose)	Water, sucrose	+++	+++	+++	+++				+++				
Mayonnaise	Water, fats, oils	+++			+++	+++		-	+++	+++	+++		-
Mercuric Chloride	HgCl2	+++	+++	+++	+++	+++		-	-	+++	+++		
Mercuric Cyanide	Hg(CN)2	++	+++	+++	+++	+++		-	++	+++	+++	+++/250	+++
Mercurous Nitrate	Hg(NO3)2 & 2H2O	++	+++	+++	+++	+++		-	++ 212°F	+++	+++		
Mercury	Hg	+++	+++	+++	+++	+++	+++	-	+++	+++	+++	+++	+++
Mesityl Oxide	(CH3)2C = CHCOCH3	-	++	-	+++	+	-	+++	+++				
Methane	CH4	+++	-	+++	+++	+	++	+++	+++	++	++	+++/250	
Methyl (Methanol)	CH3OH	+++	-	-	+++	+++	-	++	+++	+++ 120°F	+++ 120°F		+++
Methyl Acetate	CH3CO2CH3	-	+	-	+++	++	-	+++	+++	+	+		+++/70
Methyl Acetoacetate	CH3COCH2 COOCH3	-		-	+++				+++				
Methyl Acrylate	CH2CHCO2CH3		+	-	+++	++			+++				
Methyl Acrylic Acid (Crotonic Acid)	CH3(CH)2COOH		+	-	+++								
Methyl Alcohol (Methanol)	CH3OH	+++	+++	++	+++	+++		++	+++	+++	+++		
Methyl Amine (Monomethylamine)	CH3NH2	++	+++	+++ 90%	+++			++	+++	-	-		
Methyl Amyl Acetate	C8H16O2	+++		-	+++			+++	+++				
Methyl Amyl Alcohol	C6H13OH	+++		-	+++			+++	+++				
Methyl Aniline	C6H5NH(CH3)	+++	+++	+++	+++								
Methyl Bromide (Bromo Methane)	CH3Br	+	+++	+++	+++	-		-	+++	-	-	+++	+/70
Methyl Butyl Ketone (2-hexanone)	CH3COC4H9	-	++	-	+++	+	-		+++	-	-		
Methyl Butyrate	CH3(CH2)2 CO2CH3	-	-		+++			+++	+++				
Methyl Cellosolve	CH3COCH2 CH2OH	-		-	+++	++	-	+++	+++	+++	+++	+++	
Methyl Chloride	CH3Cl	-	+	++	+++	-	-	-	+++	-	-	+++	+/70
Methyl Cyclopentane	C6H12	++	-	+++	+++	+	-		+++				
Methyl Dichloride	CH2Cl2	-		+++		-	-	-		-	-		
Methyl Ethyl Ketone (Butanone)	CH3COCH2CH3	-	+++	-	+++	++	-	+++	+++	-	-	+++/150	++/120
Methyl Formate	HCOOCH3	-	+	-	+++	++	-	+++	+++				
Methyl Hexane	C7H16	+++	-	+++	+++								
Methyl Iodide	CH3I	-	+++		+++			-	+++				
Methyl Isobutyl Ketone (Hexone)	CH3COCH2CH (CH3)2	-	+	-	+++	+	-	+++	++	+ 70°F	+ 70°F	+++/150	+
Methyl Isopropyl Ketone	CH3COCH(CH3)2	-	+	-	+++	+		+++	+++	+	+		-
Methyl Methacrylate	CH2C(CH3)CO2CH3	-	-	+	+++	++		++	+++			+++/73	
Methyl Oleate	C19H36O2	-	++	++	+++	+							
Methyl Propyl Ketone	CH3CH2CH2COCH3	-	++	-	+++								
Methyl Salicylate (Betula Oil)	HOC6H4 COOCH3	-	+	++	+++	++		+++					
Methylacrylic Acid	CH3CHCHCO2H			++	+++	+++							
Methylamine	CH3NH2	++	+++	+++ 90%	+++	+++		++	+++	+++	+++		+++/70
Methylene Bromide	CH2Br2	-		++	+++	++		-	+++				
Methylene Chloride	CH2Cl2	-	-	++	+++	-	-	-	+++ 90%	-	-	+++/73	-
Milk		+++	+++	+++	+++	+++		+++	+++	+++	+++	+++/250	+++
Mine Water		+++			+++			++	++				
Mineral Oil (Petroleum)	Hydrocarbons	+++	-	+++	+++	+		+++	+++	++	++		

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Mixed Acids (Sulfuric & Nitric)	H2SO4, HNO3	-	++	+++	+++			-	++	-	-		
Molasses		+++	+++	+++	+++	+++	-	+++	+++	+++	+++	+++/150	+++
Monochlorobenzene	C6H5Cl	-		+++	+++	+	-	-	+++	-	-	+++/100	
Monoethanolamine	NH2C2H4OH	++		+	+++	+++	+	++	+++	-	-		+
Mustard		+		-	+++	+++		++	+++	+++	+++		+++
N,N-Dimethyl Formamide (DMF)	HCON(CH3)2	+		-	+++	+++		+++	+++	+++ 120°F	+++ 120°F		
N,N-Dimethylaniline	C6H5N(CH3)2	-	+	-	+++	++		++		-	-		
n-Amyl Amine (1-Aminopentane)	CH3(CH2)4NH2	+	-	-	+++								
Naphtha (Petroleum Spirits) (Thinner)	Petroleum fractions	+++	-	+++	+++	+		+++	+++	-	-		
Naphtha Coal Tar (Benzol)	Hydrocarbons	-	-	+++	+++			+++	+++				
Naphthalene (Tar Camphor)	C10H8	-	-	+++	+++	+		++	+++	+++	+++		
Naphthoic Acid	C11H8O2	++	-	+++	+++			++	+++				
n-Butyl Acetate	CH3CO2(CH2)3CH3	-	-	-	+++	+++		+++	+++				
Neatsfoot Oil		+++	+	+++	+++	++			+++				
Neohexane (2,2-dimethylbutane)	C6H14	+++		+++	+++								
Neosol		+++	++	+	+++			++	+++				
Neville Acid		+	+	++	+++	+++							
n-Hexane	C6H14	+++	-	+++	+++	+++		+++	+++	+ 140°F	+ 140°F		
n-Hexane 1 (Hexylene)	H2CCH(CH2)3CH3	+++	-	+++	+++	+							
Nickel Acetate	Ni(CH3CO2)2	++	+++	-	+++	+++		++ 10%	+++	+++	+++	+++/73	
Nickel Chloride	NiCl2	+++	+++	+++	+++	+++		-	++	+++	+++	+++	+++
Nickel Nitrate	Ni(NO3)2&6H2O	+++	+++	+++	+++			-	+++	+++	+++	+++	
Nickel Sulfate	NiSO4	+++	+++	+++	+++	+++	+++	-	+++ 40%	+++	+++	+++	+++
Nitrana (Ammonia Fertilizer)		++		+	+++	+++			+++				
Nitric Acid (Conc.)	HNO3	-	-	++	+++	+		+++	+++	-	-		
Nitric Acid (Red Fuming)		-	-	++	+++	-		+++	+++	-	-		
Nitric Acid _ 10%	HNO3	-	++	+++	+++	+++		+++	+++	+++	+++		
Nitric Acid _ 25%	HNO3	-	++	+++	+++	+++ 20%		-	+++ 30%	+++	+++		
Nitric Acid _ 35%	HNO3	-	+	+++	+++			-	+++ 40%	++	++		
Nitric Acid _ 50%	HNO3	-	-	+++	+++	+		-	+++	+	+		
Nitric Acid _ 70%	HNO3	-	-	+++	+++				+++				
Nitrobenzene	C6H5NO2	-	-	++	+++	++		+++	+++	++	++	+++/150	+/70
Nitroethane	C2H5NO2	-	+	-	+++	+++		+++	+++	+	+		
Nitrogen Tetroxide	N2O4	-	-	+	+++			+++	+++	-	-		
Nitromethane	CH3NO2	-	+	-	+++	+++		+++	+++	+	+	+++/200	+++
N-Methyl Aniline	C6H5NHCH3	-		+	+++					+	+		
n-Octane	C8H18	+++	-	+++	+++	++				-	-		
n-Propyl Acetate	CH3COO(CH2)2CH3	-	+++	-	+++	++		+++	+++	+	+		
n-Propyl Nitrate (NPN)	CH3(CH2)2NO3	+++	++	+	+++	++		+++	+++				
o-Chlorophenol	C6H5ClO	-	-	++	+++			++	++				
Octachlorotoluene	C7Cl8	-		+++	+++		-	-		-	-		
Octadecane	CH3(CH2)16CH3	+++	-	+++	+++	++	+++						
Octyl (Caprylic Alcohol)	C7H15 CH2OH	++		+++	+++	++	-	+++	+++			+++/70	+++/120
Octyl Acetate	CH3COO(CH3)7CH3	-		-	+++			+++	+++				
o-Dichlorobenzene	C6H4Cl2	-	-	+++	+++	-	-	-	++	++	++		
Oleic Acid (Red Oil)	C18H34O2	+	+	++	+++		++	+++	++	++	++	+++/250	+/120
Olein (Triolene)	C57H104O6	++			+++								
Oleum (Fuming Sulfuric Acid)	H2SO4/SO3	+		+++	+++	-	-	-	+++	-	-	+++/73	-
Olive Oil	Mixed glycerides of acids	+++	+	+++	+++	++		+++	+++	+++	+++		
Oxalic Acid	(COOH)2	+	+++	+	+++	+++ told		++	++ 90%	+++	+++		

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CHEMICAL	FORMULA	NBR	EPDM	FKM	PTFE	Santoprene™	Polyurethane	Aluminium	Stainless Steel (316)	CFF PP	GFR PP	CFF ECTFE	UHMW PE
Ozone	O3	-	+++	+++	+++	+++	+++	+++ 10%	+++	-	-	+++	+/70
Paint Thinner, DUCO	Hydrocarbons	+++	-	++	+++	+	-	-	+++	-	-		
Paints & Solvents		-			+++			-	+++				
Palm Oil	Mixture of terpenes	+++		+++	+++	++			+++				
Palmitic Acid	CH3(CH2)14 COOH	++	++	++	+++	++	+++	++	+++	+++	+++	+++/250	
Paraffins (Paraffin Oil)	Hydrocarbons	+++			+++	+++		+++	+++	+++	+++		
Paraformaldehyde	(CH2O)n	++		+	+++			+++ 10%	+++				
Paraldehyde	C6H12O3	+		-	+++			+++	+++				
Peanut Oil	Glycerides of fatty acids	+++	+++	+++	+++	++			+++	+++ 70°F	+++ 70°F		
Pentachloroethane (Pentalin)	Cl2 CHCCl3	-	-	+++	+++			-	+++				
Pentachlorophenol (PCP)	C6Cl5OH	-	-	+++	+++			+++	+++				
Pentane (Amyl Hydride)	C5H12	+++	-	+++	+++	+++	-	+++	++				-
Peppermint Oil		-		+++	+++	+			+++				
Perchloric Acid	HClO4	-	++	+++	+++ 70%	+	-	-	++			+++/200	++
Perchloroethylene (Tetrachloroethylene)	C2Cl4	-	-	+++	+++	+++	-	-	+++ 90%	-	-	+++/200	-
Petroleum (Crude Oil) (Sour)	Hydrocarbons	++	-	+++	+++			++	+++	-	-		
Phenethyl Alcohol (Benzyl Carbinol)	C6H5(CH2)2OH	-	++	-	+++			+++	+++				
Phenol (Carbolic Acid)	C6H5OH	-	+	+++	+++	+++		++	++	+	+		
Phenyl Acetate	CH3COOC6H5	-	++	-	+++								
Phenyl Ethyl Ether (Phenetole)	C6H5OC2H5	-	-	+	+++	+	-						
Phenyl Hydrazine	C6H5NHNH2	-	-	+++	+++	++	-	+++		-	-	+++/73	
Phenyl Sulfonic Acid	C6H4(OH)SO3H	-		-	+++			++	++				
Phenylbenzene	C6H5	-		+++	+++	+	-						
Phorone (Diisopropylidene Acetone)	C9H14O	-	+	+++	+++	++	-						
Phosphoric Acid (Conc.)	H3PO4	-	++	+++	+++			-	+++ 212°F	+++ 120°F	+++ 120°F		
Phosphoric Acid _ 10%	H3PO4	+++	+++	+++	+++	+++		-	+++	+++ 120°F	+++ 120°F		
Phosphoric Acid _ 20%	H3PO4	+	+++	+++	+++	+++		-	+++ 212°F	+++ 120°F	+++ 120°F		
Phosphoric Acid _ 50%	H3PO4	-	++	+++	+++	+++ 45%		-	+++	+++ 120°F	+++ 120°F		
Phosphorus Oxychloride	POCl3				+++			++	++				
Phosphorus Trichloride	PCI3	-	+++	+++	+++	++		+	+++	-	-		
Photographic Developer		+++		+++	+++	+++		+	+++	+++	+++		
Pickling Solution			-	++	+++	+++	+						
Picric Acid (Carbazotic Acid)	(NO)3 C6H2OH	++	++	+++	+++	++	++	+++	+++	++	++	+++/73	+++
Pine Oil (Yarmor)	Cyclic terpene alcohols	++	-	+++	+++	+		+++	+++				
Pinene	C10H16	++	-	+++	+++	+	++						
Piperidine	C5H11N	-	-	-	+++	++	-						
Plating Solution _ Cadmium		++			+++	+++			+++	-	-		
Plating Solution _ Chrome		-	+	+++	+++	+++				+++ 131°F	+++ 131°F		
Plating Solution _ Lead		++			+++	+++							
Plating Solution _ Others		+++	+++	++	+++	+++			+++				
Polyvinyl Acetate Emulsion	PVAc + H2O		+++		+++	+++							
Potassium Acetate	CH3CO2K	++	+++	-	+++	+++	-	++ 10%	++	+++	+++	+++/70	
Potassium Bicarbonate	KHCO3	+++		+++	+++	+++		++	+++ 30%	+++	+++		+++
Potassium Bisulfate	KHSO4	+++		+++	+++			+++ 10%	+++ 10%	+++	+++		
Potassium Bisulfite	KHSO3	+++		+++	+++			++ 10%	++ 105				
Potassium Bromide	KBr	+++	+++	+++	+++	+++		++ 90% 212°		+++	+++	+++	+++
Potassium Carbonate (Potash)	K2CO3	+++	+++	+++	+++	+++		-	++	+++	+++	+++	
Potassium Chlorate	KClO3	+++	+++	+++	+++	+++		-	+++ 60%	+++	+++		+++/70
Potassium Chloride	KCl	+++	+++	+++	+++	+++	+++	-	+++	+++	+++	+++	+++/70
Potassium Chromate	K2CrO4	+++		+++ 40%	+++	+++		+++	+++	+++	+++	+++	+++

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Potassium Copper Cyanide	K3[Cu(CN)4]	+++	+++	+++	+++					+++	+++		
Potassium Cyanide	KCN	+++	+++	+++	+++	+++		+	++ 90% 212°	+++	+++		
Potassium Dichromate	K2Cr2O7	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++
Potassium Hydroxide (Caustic Potash) (Lye)	KOH	++	+++	++	+++	+++	++	-	+++	+++	+++	+++/150	+++
Potassium Iodide	KI	+++	+++	+++	+++			++ 10%	++	+++	+++		
Potassium Nitrate (Saltpeter)	KNO3	+++	+++	+++	+++	+++	+++	+++ 80%	++ 80% 212°	+++	+++	+++	+++
Potassium Nitrite	KNO2	+++	+++	+++	+++			++	++	+++	+++		
Potassium Permanganate (Purple Salt)	KMnO4	+	+++	++	+++	+++		+++ 10%	++ 30% 212°	++	++		+++
Potassium Phosphate	KH2PO4	+++	+++	+++	+++			-	++ 30%				
Potassium Silicate	K2Si2O5	+++	+++	+++	+++			++	++				
Potassium Sulfate	K2SO4	+++	+++	+++	+++	+++	+++	++	+++	+++	+++	+++	+++/120
Potassium Sulfide	K2S	+++	+++	+++	+++			-	++	+++	+++		
Potassium Sulfite	K2SO3·2H2O	+++	+++	+++	+++	+++		+++	++ 50%	+++	+++		
Propane (LPG)	C3H8	+++	-	+++	+++	+		+++	+++	-	-		
Propionaldehyde (Propanal)	C2H5CHO	-		-	+++			+++	+++				
Propionic Acid (Methylacetic Acid)	CH3CH2CO2H	-	+++	+++	+++			+++	++				
Propyl (Propanol)	C2H5CH2OH	+++	+++	+++	+++	+++	-	+++	+++	+++	+++		
Propyl Alcohol (1-Propanol)	CH3CH2CH2OH	++	+++	+++	+++			+++	+++	+++	+++		
Propylene	C3H6	-	-	+++	+++	++	-	+++	+++				
Propylene Dichloride	CH3CH(Cl)CH2Cl	-	-	++	+++			-	+++				
Propylene Glycol (Methyl Glycol)	C3H6(OH)2	+++	+++	+++	+++	+++		+++	+++	+++	+++		++/70
Propylene Oxide	C3H6O		+	-	+++	+++	-	++	+++	-	-	-	
Pydraul (Phosphate Eser Base Fluid)		-	++	+++	+++	+++			+++				
Pyranol		+++		+++	+++		++						
Pyridine	N(CH)4CH	-	+	-	+++	+++		+++	+++	+	+	-	++/70
Pyroligneous Acid (Wood Vinegar)		+	+	+++	+++			++	+++ 10%	+++	+++	+++/100	
Pyrrole (Azole)	C4H5N	-	-	+	+++	+	++						
Quaternary Ammonium Salts	NH4 (X)	+++		+++	+++				+++				
Quench Oil		++		+++	+++			+++	+++				
Rape-Seed Oil (Colza Oil)		++	+++	+++	+++	++			+++				
Rose Oil	Geraniol, citronellol			+++	+++	+++			+++				
Rosin	C20H30O2	+++			+++	+++		+++	+++	+++	+++		++/120
Rosin Oil (Rosinol)		+++		+++	+++								
Rotenone	C23H22O6	+++	+++	+++	+++								
Rubber Latex Emulsions	(C5H8)n/H2O			+++	+++	+++		+++	+++				
Rubber Solvents (Petroleum Distillate)	Hydrocarbons	-		-	+++			+++	+++				
Rum (Alcoholic liquor from molasses)		+++	+++	++	+++	+++	-		+++				
Rust Inhibitors		+++		+++	+++	++			+++	+++	+++		
Sal Ammoniac (Ammonium Chloride)	NH4Cl	+++	+++	+++	+++	+++	+++	-	++	+++	+++		
Sal Soda (Sodium Carbonate)	NaCO3	+++	+++	+++	+++			-	+++				
Salad Dressing	Fats, oils, water	+++		+++	+++	+++		++	+++	+++	+++		
Salicylic Acid		++	+++	++	+++			+++	++	+++	+++		
Salt Water (Brine)	NaCl/H2O	+++	+++	+++	+++	+++		++	+++	+++	+++		
Sea Water (Brine)		+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++/250	+++/120
Sesame Seed Oil	Olein, stearin, palmitin	+++		+++	+++	++			+++				
Sewage		+++	+	+++	+++	+++	-	++	+++	+++	+++		
Silicate Esters	Si(OR)4	++	-	+++	+++	++	+++						
Silicone Oils (Versilube etc.)	[(CH3)2SiO2]n	+++	+++	+++	+++	+		++	+++	+++	+++		
Silver Cyanide	AgCN				+++			-	+++	+++	+++		
Silver Nitrate	AgNO3	++	+++	+++	+++	+++	+++	-	+++ 60%	+++	+++	+++	+++

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Skydrol Hydraulic Fluid (Phosphate Ester Base)		-	+++	+	+++	++			+++				
Soap Solutions	Salt of fatty acid in H2O	+++	+++	+++	+++	+++	+++	+	+++	+++	+++	+++/150	-
Soda Ash (Sodium Carbonate)	Na2CO3	+++	+++	+++	+++	+++		-	+++				
Sodium Acetate	CH3COONa	+	+++	-	+++	+++	-	+++	+++	+++	+++	+++	+++
Sodium Aluminate	Na2Al2O4	+++		+++	+++	+++			+++ 40%	+++	+++	+++	
Sodium Bicarbonate (Baking Soda)	NaHCO3	+++	+++	+++	+++	+++		++	+++ 20%	+++	+++	+++	+++/120
Sodium Bisulfite (Cream of Tartar)	NaHSO3	+	+++	+++	+++	+++		+++	+++ 50%	+++	+++	+++	+++/120
Sodium Bisulfite (Niter Cake)	NaHSO4	+++	+++	+++	+++	+++		++ 50%	++ 50%	+++	+++	+++	+++/120
Sodium Borate	Na2B4O7	+++	+++	+++	+++	+++		++	+++	+++ 140°F	+++ 140°F	+++	+++/120
Sodium Bromide	NaBr				+++			+	++ 30%				
Sodium Chlorate	NaClO3	+++	+++	+++	+++	+++		++ 70% 212°	++	+++	+++	+++	++/120
Sodium Chloride (Table Salt)	NaCl	+++	+++	+++	+++	+++	+++	++	+++	+++	+++	+++	+++/120
Sodium Chromate	Na2CrO4	+++	+++	+++	+++	+++		+++ 80% 212°	+++ 60%	+++	+++	+++	
Sodium Cyanide	NaCN	+++	+++	+++	+++	+++		-	+++	+++	+++	+++	+++/120
Sodium Dichromate (Sodium Bichromate)	Na2Cr2O7&2H2O		+++	+++	+++					+++	+++		
Sodium Fluoride	NaF	+++	+++	+++	+++			++ 30%		+++	-		
Sodium Hexametaphosphate (Calgon)	(NaPO3)6	++	++	+++	+++			+	++				
Sodium Hydroxide (Caustic Soda) (Lye)	NaOH	++	+++	-	+++	+++ 50%		-	++ 50%	+++	+++		
Sodium Hypochlorite	NaClO	-	+	++	+++	+++ 20%		-	-	-	-		
Sodium Metaphosphate (Kurrol's Salt)	NA(PO3)H	++	+++	+++	+++	+++		-	-	-	-	+++	+++/70
Sodium Metasilicate	Na2SiO3	+++	+++	+++	+++	+++		++	+++	+++	+++		
Sodium Nitrate (Chile Saltpeter)	NaNO3	+	+++	+++	+++	+++		+++ 90%	+++ 90%	+++	+++	+++	+++/120
Sodium Nitrite	NaNO2	+++	+++	+++	+++	+++		+++	+++	+++	+++		
Sodium Perborate	NaBO3	+	+++	+++	+++	+++		-	+++	+++	+++		+++/70
Sodium Peroxide (Sodium Dioxide)	Na2O2	++	++	+++	+++	++	-	++ 10%	++ 10%	++	++	+++	+++
Sodium Phosphate (Tribasic) (TSP)	Na3PO4	++	+++	+++	+++	+++	+++	-	++	+++	+++	+++	
Sodium Silicates (Water Glass)	Na2O SiO2	+++	+++	+++	+++	+++		+++	+++	+++	+++		
Sodium Sulfate (Salt Cake) (Thenardite)	Na2SO4	+++	+++	+++	+++	+++	+++	++ 30%	+++	+++	+++	+++	+++/120
Sodium Sulfide (Pentahydrate)	Na2S &5H2O	+++	+++	+++	+++	+++	+++	++ 30% 212°	++ 30% 167°	+++	+++	+++	+++/120
Sodium Sulfite	Na2SO3	+++	+++	+++	+++	+++		+++ 30%	+++ 30%	+++	+++		
Sodium Tetraborate	Na2B4O7 &1&0H2O	+++	+++	+++	+++	+++			+++	+	+	+++	+++/120
Sodium Thiosulfate (Antichlor)	Na2S2O3	+++	+++	+++	+++	+++		+++	+++ 122°F	+++	+++		
Sorghum		+++			+++	+++			+++				
Soy Sauce	Fermented soya bean/wheat	+++			+++	+++	++		+++				
Soybean Oil	Tricyclerides of acids	+++	+	+++	+++	++		+++	+++	++	++		
Sperm Oil (Whale Oil)	Fatty acid esters	+++		+++	+++	++			+++				
Stannic Chloride (Tin Chloride)	SnCl4	+++	++	+++	+++	+++	++	-	+++ 10%	+++	+++	+++	+++/120
Stannous Chloride (Tin Chloride)	SnCl2	+++	++	+++	+++	+++		-	+++ 10%	+++	+++		
Starch	C6H10O5	+++	++	+	+++	+++	+++	+++	+++	+++	+++	+++/150	++
Stearic Acid	CH3(CH2)16CO2H	++	++	+++	+++	++	+++	+	+++	+++	+++	+++/150	++/72
Stoddard Solvent	Petroleum distillate	+++	-		+++	+	+++	+++	+++	+++	+++	+++	+/120
Styrene (Vinylbenzene)	C6H5CHCH2	-	-	+++	+++	+	+	+++	+++				
Sucrose Solution (Sugar)	C12H22O11/H2O	+++	+++	+++	+++	+++		-	+++	+++			
Sulfamic Acid	H2NSO3H	++		+++	+++			+++ 10%	-	-	-		
Sulfite Liquors		+++	+	+++	+++	+++						+++/73	
Sulfur	S	-	+++	+++	+++	+++	++	+++	+++	+++	+++	+++/250	
Sulfur Chloride	S2Cl2	+	-	+++	+++	-		++	++	-	-	+++/73	+/70
Sulfur Dioxide	SO2	-	++	+++	+++	+++		+++	+++ 10%	+++	+++	+++/150	++/70
Sulfur Hexafluoride	SF6	++	+++	+++	+++	++							++
Sulfur Trioxide	SO3	+	+	+++	+++	+	++	++	++	-	-		

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Sulfuric Acid (Conc.)	H2SO4	-	+	+++	+++	++ 98%	-	-	++	-	-		
Sulfuric Acid (Fuming)	H2SO4	-	-	++	+++		-	+	++				
Sulfuric Acid 10%	H2SO4	++	+++	+++	+++	+++		-	+++	+++	+++		
Sulfuric Acid 25%	H2SO4	+	++	+++	+++	+++		-	++	+++	+++		
Sulfuric Acid 50%	H2SO4	+	++	+++	+++	+++		-	-	+++	+++		
Sulfuric Acid 60%	H2SO4	-	++	+++	+++	+++		-	-	+++	+++		
Sulfuric Acid 75%	H2SO4	-	+	+++	+++	+++		-	+	+++	+++		
Sulfuric Acid 95%	H2SO4	-	+	+++	+++	+++		-	+++	-	-		
Sulfurous Acid	H2SO3	++	+	+++	+++	+++	-	++	++	+++	+++	+++/250	++/120
Tall Oil (Liquid Rosin)	Rosin acids	+++	-	+++	+++	+++		-	++	+++	+++		
Tallow	Fat from cattle, sheep	+++		+++	+++	++	+++	+++	+++	++	++		+
Tannic Acid	C76H52O46	+	+	+++	+++	+++	+++	+++	+++	+++	+++	+++/250	+++
Tanning Liquors	Tannic acid	+++		+++	+++	+++		+++	+++	+++	+++	+++/250	+++/70
Tar, Bituminous (Coal tar, pitch)	Mixture of aromatic & phenolic hydrocarbon	++	-	+++	+++	++		+++	+++	+++	+++	+++	
Tartaric Acid	C4H6O6	++	++	+++	+++	+++	+++	+++ 20%	+++	+++	+++	+++/250	+++/70
Terpenes	C10 hydrocarbons	+	-	+++	+++			+++					
Terpineol (Terpilenol)	C10H18O	+	+	+++	+++	++	++	+++	+++	-	-		
Tertiary Butyl Alcohol	(CH3)3COH	+++		++	+++	++	-			++	++		
Tertiary Butyl Catechol	C9H14O2	-		+++	+++	++	-	+	++				
Tertiary Butyl Mercaptan	C4H10S	-		+++	+++	++	-						
Tetra Bromomethane	CBr4	-		+++	+++	-		-		-	-		
Tetrabutyl Titanate	Ti(C4H9)	++	++	+++	+++	++		+++					
Tetrachlorodifluoroethane	(Cl2FC)2	-			+++			+++					
Tetrachloroethane (Acetylene Tetrachloride)	(Cl2HC)2	-	-	+++	+++	-		-	+	-	-		
Tetrachloroethylene	Cl2C = CCl2					-	++	+++				+++/200	++
Tetraethyl Lead	Pb(C2H5)4	++	-	++	+++	+		++	+++	+++	+++		
Tetraethylene Glycol (TEG)	HOCH2(CH2OCH2)3CH2OH	+++		+++	+++								
Tetrahydrofuran (THF)	C4H8O	-	+	-	+++	++	+			+ 100°F	+ 100°F	-	+/70
Tetrahydronaphthalene (Tetralin)	C10H12	-	-	+++	+++			+++	+++	+	+		
Thionyl Chloride	SOCl2	-		++	+++	++		+	+++	++	++	+++/150	
Thiophene	C4H4S	-	-	+	+++								
Titanium Tetrachloride	TiCl4	+	-	+++	+++	-	-	-	++	++	++		
Toluene (Toluol)	C7H8	+	-	++	+++	+	+	+++	+++	-	-	+++/200	+/70
Toluene Diisocyanate	CH3C6H3(NCO)2		+++		+++	++							
Toluidine	CH3C6H4NH2	-		++	+++	++		+++	+++				
Tomato Pulp & Juice		+++			+++	+++		++	+++	+++	+++		
Toothpaste		+++		+++	+++				+++				
Transformer Oil (Petroleum)	Hydrocarbons	++	-	+++	+++	-	-	+++	+++	++	++	+++/250	
Transmission Fluid (Type A)		+++	-	+++	+++	+		+++	+++				
Triacetin	C3H5(OCOCH3)3	+++	+++	-	+++	+++	-	++					
Triallyl Phosphate	P(OC3H5)3	-	+++	+++	+++					++	++		
Triaryl Phosphate	(C6H5O)3PO	-		+++	+++		++						
Tributyl Phosphate (TBP)	(C4H9)3PO4	-	+	-	+++	++	-	+++	+++	++ 100°F	++ 100°F	+++/73	
Tributyoxyl Ethyl Phosphate	(C4H9O)3P(C2H5)	-	+++	++	+++	++							
Trichloroacetic Acid (TCA)	CCl3COOH	+	+	++	+++	++	-	-	-	++	++	+++/150	+++
Trichlorobenzenes	C6H3Cl3	-		++	+++			-	+++				
Trichloroethane	C2H3Cl3	-	-	++	+++	-		-	+++	-	-		
Trichloroethylene (Ex-Tri) (Hi-Tri)	C2HCl3	-	-	+	+++	-		-	++ 90% 167°	-	-		
Trichloropropane	CH2ClCHClCH2Cl	-		++	+++	-		-	+++	-	-		
Tricresyl Alcohol (Tridecanol)	C12H25 CH2OH	+++		++	+++								

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 - = Not Recommended
 The accuracy of these ratings cannot be guaranteed.

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CHEMICAL	FORMULA	NBR	EPDM	FKM	PTFE	Santoprene™	Polyurethane	Aluminium	Stainless Steel (316)	CFF PP	GFR PP	CFF ECTFE	UHMW PE
Tricresyl Phosphate (Lindol) (TCP)	(CH3C6H4O)3 PO	-	+++	+	+++	++			++	++	++		
Triethanol Amine (TEA)	N(C2H4OH)3	-	++	+	+++	+++	-	+++	+++	+++	+++	+++/73	
Triethyl Aluminum (ATE)	Al(C2H5)3	-		++	+++	++							
Triethyl Amine	(CH3CH2)3N	+++			+++				+++	+	+		
Triethyl Borane	(C2H5)3B	-		+++	+++	++							
Triethylene Glycol (TEG)	(CH2OCH2CH2OH)2	+++		+++	+++					+++	+++		
Trimethylene Glycol	HO(CH2)3OH	+++	+++	+++	+++			+++	+++				
Trinitrotoluene (TNT)	CH3C6H2(NO2)3	-	-	+	+++	+++							
Trioctyl Phosphate	(C8H17O)3PO	-	+++	++	+++	++							
Tung Oil (Wood Oil)	Fatty acids	+++	-	+++	+++	++	++	+++	+++	+++	+++		
Turpentine	C10H16	+++	-	+++	+++	+	-	+++	+++	-	-	+++/200	-
Unsymmetrical Dimethyl Hydrazine (UDMN)	H2NN(CH3)2	+	+++	-	+++	++							
Urea (Carbamide)	CO(NH2)2	++		+++	+++			++	++ 50%	+++	+++		
Urine		+++		+++	+++	+++		+++	+++	+++	+++		
Valeric Acid	CH3(CH2)3COOH	-	+++		+++			+++					
Vanilla Extract (Vanillin)	C6H3(CHO)(OCH3)(OH)	+++		-	+++				+++				
Varnish (Oil, gum resins, oil of turpentine)		++	-	+++	+++			+++	+++	+++	+++		
Vegetable Juices		+++			+++	+++		+	+++				
Vegetable Oils		++	+++	+++	+++	++		+++	+++	-	-		
Vinegar	Dilute acetic acid	+	+++	+++	+++	+++		+	+++	+++	+++		
Vinyl Acetate	CH3COOCH2	-		-	+++			++	+++	++	++		
Vinyl Chloride (Chloroethylene)	CH2CHCl	-	+	+++	+++	-		-	+++	-	-		
Walnut Oil		+++		+++	+++								
Water, Distilled (Also Deionized)	H2O	+++	+++	+++	+++	+++		+++	+++	+++	+++		
Water, Fresh	H2O	+++	+++	+++	+++	+++		+++	+++	+++	+++		
Waxes	Hydrocarbons	+++	-		+++			+++	+++				
Weed Killers		++		+++		++		-	+++				
Whiskey	Ethanol, esters, acids	++	+++	+++	+++	+++		+++	+++	+++	+++		
White Oil (Mineral, petroleum)	Mix of liquid hydrocarbons	+++	-	+++	+++	+			+++				
White Sulfate Liquor		++	+++	++	+++			++	+++	+++	+++		
Wines		+++	+++	++	+++	+++		+	+++	+++	+++		
Wort, Distillery	Sugar solution from malt			+++	+++			+++	+++				
Xylene (Xylol)	C6H4(CH3)2	-	-	+++	+++	+		+++	++	-	-		
Xylidines (Xylidin)	(CH3)2C6H3NH2		-	-	+++	+		++					
Zeolite (Hydrated alkali aluminum silicates)		+	+++	+++	+++	+++			+++				
Zinc Acetate	Zn(C2H3O2)2	+	+++	-	+++	+++		+		+++	+++		
Zinc Carbonate	ZnCO3	+++		+++	+++			++	++				
Zinc Chloride	ZnCl2	++	+++	+++	+++	+++		+++ 10%	+++ 10%	+++	+++		
Zinc Hydrosulfite	ZnHSO3	+++		+++	+++	+++		-	+++				
Zinc Sulfate	ZnSO4	+++	+++	++	+++	+++		++ 20%	++	+++	+++		

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CHEMICAL	FORMULA	NBR	EPDM	FKM	PTFE	Santoprene™	Polyurethane	Aluminium	Stainless Steel (316)	CFF PP	GFR PP	CFF ECTFE	UHMW PE
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This Chemical Resistance List has to be intended as a guide in order to help the choice of materials better resistant to the handled chemical. No guarantees can be given in respect of the shown data, subject to be revised in the light of further empirical knowledge.

legend of materials:

- GFR-PP:** glass fiber reinforced PP
- PP:** polypropylene
- CFF:** carbon fiber filled
- E-CTFE:** ethylene-chlorotrifluoroethylene
- UHMWPE:** ultra-high-molecular-weight polyethylene
- NBR:** butadiene acrylonitrile elastomer
- PTFE:** polytetrafluoroethylene
- EPDM:** ethylene propylene elastomer
- FKM:** fluorine elastomer

Temperature scale correlation:			
°C	°F	°F	°C
20	68	70	21
40	104	110	43
60	140	140	60
80	176	170	77
100	212	210	99
120	248	250	121
140	284	280	138

°C Celsius degree
°F Fahrenheit degree



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