

Media	Chemical Formula	Metals											Elastomers					Polymers										
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 S5t	17-4PH	Alloy 20	Monel	Hastelloy C ^o	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin [®]	PEEK [®]	PVDF	Teflon [®] and Reinforced	Teflon	PCTFE	UHMWPE [®]	Vespe [®]	PFA
Acetaldehyde	C ₂ H ₄ O	B	B	C	C	A	A	A	A	A	A	A	A	A	D	A	D	A	A	A	B	D	A	A	A	A	A	A
Acetamine	HCl	B	B	B	B	B																						
Acetate Solvents	-	A	A	D	B	A	A	A	A	A	A	A	A	A	D	A	D	A	D	A	D	A	A	A	A	A	A	B
Acetic Acid (aerated)	C ₂ H ₄ O ₂	C	D	D	C	A	A	A	A	A	A	A	A	A	C	A	D	A	D	A	A	A	A	A	A	A	A	
Acetic Acid (air free)	C ₂ H ₄ O ₂	C	D	D	C	A	A	A	A	A	A	A	A	A	C	A	D	A	D	A	A	A	A	A	A	A	A	
Acetic Acid (crude)	C ₂ H ₄ O ₂	C	D	D	D	A	A	A	A	A	A	A	A	A	C	A	D	A	D	A	A	A	A	A	A	A	A	
Acetic Acid Glacial	C ₂ H ₄ O ₂	C	D	D	D	A	A	A	A	A	A	A	A	A	C	A	D	A	D	A	A	A	A	A	A	A	A	
Acetic Acid (pure)	C ₂ H ₄ O ₂	C	D	D	D	A	A	A	A	A	A	A	A	A	C	A	D	A	D	A	A	A	A	A	A	A	A	
Acetic Acid 10%	C ₂ H ₄ O ₂	C	D	D	D	A	A	A	A	A	A	A	A	A	C	A	D	A	D	A	A	A	A	A	A	A	A	
Acetic Acid 80%	C ₂ H ₄ O ₂	C	D	D	D	A	A	A	A	A	A	A	A	A	C	A	D	A	D	A	A	A	A	A	A	A	A	
Acetic Acid Vapors	-	B	D				C	C	B	C	A																	
Acetic Anhydride	C ₄ H ₆ O ₃	C	D	D	D	B	B	B	A	A	A	A	A	A	C	D	D	A	D	A	D	A	A	A	A	A	A	
Acetone	C ₃ H ₆ O	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	D	A	D	A	A	A	A	A	A	A
Other Ketones	RC(=O)R'	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	D	A	D	A	A	A	A	A	A	
Acetyl Chloride	CH ₃ COCl	C	B	A	C	A	A	A	A	A	A	A	A	A	D	C	D	D	D	D	D	B	B	A	A	A	A	
Acetylene	C ₂ H ₂	A	C	A	A	A	A	A	A	A	A	A	A	A	B	C	A	A	A	A	A	B	B	A	A	A	A	
Acid Fumes	-	B	D	D	D	B																						
Acrylonitrile	C ₃ H ₃ N	B	A	A	C	A	A	A	A	A	A	A	A	A	B	A	A	D	D	B	D	A	B	A	A	A	A	
Air	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Alcohol, Amyl	C ₅ H ₁₁ OH	B	B	B	B	A	B	B	B	B	B	B	B	B	A	A	A	B	A	A	A	A	A	A	A	A	A	A
Alcohol, Butyl	C ₄ H ₉ OH	A	B	B	C	A	B	A	A	A	A	A	A	A	B	A	B	A	A	A	A	A	A	A	A	A	A	
Alcohol, Diacetone	CH ₃ C(O)CH ₂ C(O)H(CH ₃) ₂	A	B	B	B	A	B	A	A	A	A	A	A	A	B	A	D	A	A	A	A	A	A	A	A	A	A	B
Alcohol, Ethyl	C ₂ H ₆ O	B	B	B	B	A	B	A	A	A	A	A	A	A	B	A	A	A	A	A	B	A	A	A	A	A	A	A
Alcohol, Fatty	-	B	B	B	B	B	A	B	A	A	A	A	A	A	B	A	B	A	A	A	A	A	A	A	A	A	A	
Alcohol, Isopropyl	C ₃ H ₈ O	B	B	B	B	B	B	B	A	B	B	B	B	B	A	B	A	A	A	A	A	A	A	A	A	A	A	
Alcohol, Methyl	CH ₄ O	C	B	B	B	A	B	A	A	A	A	A	A	A	B	A	C	A	A	B	A	A	A	A	A	A	A	B
Alcohol, Propyl	C ₃ H ₈ O	B	B	B	B	A	B	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	
Alumunia	-	A	A																									
Aluminum Acetate	Al(C ₂ H ₃ O ₂) ₃	C	C																									
Aluminum Chloride (dry)	AlCl ₃	C	D	D	C	B	B	A	A	A	A	A	A	A	C	D	A	A	A	C	A	A	A	A	A	A	A	A
Aluminum Chloride Solution	-	B	D	D	D	D	C	B	B	A	A	A	A	A	B	D	A	A	A	D	A	A	A	A	A	A	A	A

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Media	Chemical Formula	Metals											Elastomers					Polymers										
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SS	17-4PH	Alloy 20	Monel	Hastelloy C	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin	PEEK	PVDF	Teflon and Reinforced Teflon	PCTFE	UHMWPE	Vespele	PFA	KEL-F
Aluminum Fluoride	AlF ₃	C	D	D	D	C	C	B	A	B								A	A	C	A	A	A					
Aluminum Hydroxide	Al(OH) ₃	B	D	D	D	A	A	A	B	A								A	A	B	A	A	A					B
Aluminum Nitrate	Al(NO ₃) ₃	D	D	D	D	B	A	A	C	B								B	D	A	C	B	A					B
Aluminum Oxalate	C ₆ AlO ₁₂ .3	B		B	B	A	A	A	B	A													A					A
Aluminum Potassium Sulfate	AlKSO ₈ S ₂	B	B	C	D	B	B	C	B	C								B	A	B	A	C	A	A				A
Aluminum Sulfate (Alum)	Al ₂ O ₁₂ S ₃	C	C	D	D	B	B	C	B	C								A	A	C	A	A	A	A				A
Amines	R ₃ -NH ₂	C	B	B	C	A	A	A	B	A								B	C	D	A	D	A					A
Ammonia Alum	AlH ₂₈ NO ₂₀ S ₂	C		C	A	A	B	A	B	A								B	B	A	C	A	A					A
Ammonia, Anh. Liquid	NH ₃	A	D	A	B	A	A	A	B	A								B	D	A	D	A	B	A				A
Ammonia Aqueous	H ₅ NO	B	C	C	C	A	A	A	B	A								B	D	A	D	A	A	A				A
Ammonia Gas (hot)	H ₃ N	B	C	B	B	B	A	A	A	A								D	D	A	D	A	A					A
Ammonia Liquor	-	A	C	A	B	B	A	A	A	B								D	D	A	D	A	A					A
Ammonia Solutions	-	B	D	B	C	A	A	A	A	A								C	A	D	A	D	A					A
Ammonium Acetate	C ₂ H ₃ O ₂ NH ₄	A	D	D	D	B	A	A	B	A								C	A	D	A	D	A					A
Ammonium Bicarbonate	NH ₄ HCO ₃	B	B	C	C	B	B	B	B	B								B	A	A	D	A	A					A
Ammonium Bromide 5%	NH ₄ Br	D				B	B	B	B	B								B	A	A	D	A	A					A
Ammonium Carbonate	(NH ₄) ₂ CO ₃	B	D	B	B	B	B	B	B	B								C	A	B	A	D	A	A				A
Ammonium Chloride	NH ₄ Cl	C	C	D	D	C	C	B	B	B								B	A	A	C	A	A					A
Ammonium Hydroxide 28%	NH ₄ OH	C	D	C	B	B	A	A	B	B								B	A	A	C	A	A					A
Ammonium Hydroxide Conc.	NH ₄ OH	C	D	C	B	B	A	A	C	B								C	A	B	A	D	A	B				A
Ammonium Monosulfate	-	D				B	A	B	B	B										D			A					A
Ammonium Nitrate	(NH ₄)NO ₃	B	D	D	B	A	A	A	A	A								A	B	A	C	A	A					A
Ammonium Oxalate 5%	C ₂ H ₈ N ₂ O ₄	A		A	D	A	A	A	B	A								D	A	A			A					A
Ammonium Persulfate	H ₈ N ₂ O ₈ S ₂	D	D	C	D	A	A	A	D	B								D	B	B	A	D	B	A				A
Ammonium Phosphate (mono)	(NH ₄) ₃ PO ₄	B	C	D	D	B	A	A	C	A								C	A	A	B	A	A					A
Ammonium Phosphate Di-basic	(NH ₄) ₂ HPO ₄	B	C	D	C	B	B	C	A	A								A	A	A	B	A	A					A
Ammonium Phosphate Tri-basic	-	B	C	D	C	B	B	C	A	C								A	A	A	B	A	A					A
Ammonium Sulfate	(NH ₄) ₂ SO ₄	C	D	C	C	B	B	C	A	C								A	A	A	B	A	A					A
Ammonium Sulfide	(NH ₄) ₂ S	B	D	D	D	B	B	B	A	B								B	A	C	A	C	A					A
Ammonium Sulfite	(NH ₄) ₂ SO ₃	D	C	C	C	A	B	B	D	A								B	C	D	B	A	A					A
Amyl Acetate	CH ₃ COO(CH ₂) ₄ CH ₃	A	A	C	C	B	A	A	A	A								D	B	C	A	C	A	A				B

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		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SS	17-4PH	Alloy 20	Monel	Hastelloy C	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin	Peek	PVDF	Teflon and Reinforced Teflon	PCTFE	UHMWPE	Vespe	PFA
Amyl Chloride	C ₅ H ₁₁ Cl	B	B	A	B	B	B	A	A	A	A	A	A	A	D	D	D	D	A	A	A	A	A	A	A	A	A
Aniline	C ₆ H ₇ N	C	D	C	C	A	A	A	B						D	D	C	C	A	A	B	A	A	A	A	A	A
Aniline Dyes	-	C	C	C	C	A	A	A							C	B	B			B							
Apple Juice	-	B	C	D	D	B	A	A							A	B	A			A	A						
Aqua Regia (Strong Acid)	-	D	D	D	D	C	C	B	C						D	D	D	D	D	D	D	A	A	A	D	A	A
Aromatic Solvents	-	A	A	C	B	A	A	A	B						D	D	A	A		A	A	A	A	A			A
Arsenic Acid	AsH ₃ O ₄	D	C	D	D	B	A	A	B						A	A	A	A	D	A	A	A					A
Asphalt Emulsion	-	C	B	B	A	A	A	B	A						D	D	A	A	A	B	A	A					A
Asphalt Liquid	-	C	B	B	B	A	A	A	B	A					C	D	A	A	A	B	A	A					A
Barium Carbonate	CBaO ₃	C	B	B	B	B	A	A	A	A					B	A	A	A	A	A	A	A					A
Barium Chloride	BaCl ₂	D	B	C	C	B	A	A	A	A					A	A	A	A	A	A	A	A					A
Barium Cyanide	Ba(CN) ₂	D	C		C	B	A	B	C	A					B	A	A	A		B							A
Barium Hydroxide	BaH ₂ O ₂	D	D			A	A	A	B						A					A							
Barium Hydroxide	Ba(OH) ₂	D	D	C	C	A	A	A	B						A	A	A	A	A	D	A	A					A
Barium Nitrate	Ba(NO ₃) ₂	B	D	A	A	A	B	A	A						A	D	A	A	A	B							A
Barium Sulfate	BaSO ₄	C	B	B	C	B	A	A	A	A					A	A	A	A	A	A	A	A					A
Barium Sulfide	BaS	D	C	C	C	B	A	A	A	A					B	D	C			A	A	A					A
Beer	-	A	B	C	D	A	A	A	A	A					A	A	A	A	A	B	A	A					A
Beet Sugar Liquors	-	A	B	B	B	A	A	A	A	A					A	A	A	A	A	A	A	A					A
Benzaldehyde	C ₇ H ₆ O	B	B	B	C	A	A	A	B	A					A	A	A	A	A	D	A	A					A
Benzene (Benzol)	C ₆ H ₆	B	A	B	B	A	A	A	A	A					A	B	A	A	A	A	A	A					A
Benzoic Acid	C ₇ H ₆ O ₂	B	C	D	D	B	A	A	B	A					C	D	A	A	A	A	A	A					B
Beryllium Sulfate	BeO ₄ S	B	B		B	B	A	B							B	B	B			A							A
Bleaching Powder Wet	-		B	C	C	C		B	A						B					B							
Blood (meat juices)	-	B	B		D	A	A	A	A	A					A	B	B			B							A
Borax (Sodium Borate)	Na ₂ B ₄ O ₇ ·10H ₂ O	C	B	C	A	A	A	A	A	A					A	A	A	A	A	A	A	A					A
Bordeaux Mixture	-					A		A							A												
Borax Liquors	-	C	A	C	C	B	A	A	B	A					A	A	A			B							A
Boric Acid	BH ₃ O ₃	C	C	D	D	C	B	A	A	A					B	A	A	A	A	A	A	A					A
Brake Fluid	-	B	B	A	B	A	A	A	A	A					D	B	D			B	A						A
Brines (saturated)	-	C	B	C	C	B	B	B	B	A					A	A	A	A	A	A	A	A					A

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		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 S5t	17-4PH	Alloy 20	Monel	Hastelloy C ^o	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin ^o	Peek ^o	PVDF	Teflon ^o and Reinforced	Teflon	PCTFE	UHMWPE ^o	Vespel ^o	PFA	KEL-F ^o	
Bromine (dry)	Br	D	C	D	D	D	C	B	B	A	A	B	D	D	D	D	D	D	D	D	D	A	A	A	A	D		A	A	
Bunker Oils (Fuel)	-	A	B	A	B	A	A	A	A	A	A	A	A	A	A	B	C	A	A	A	A	A	A	A					A	
Butadiene	C ₄ H ₆	A	B	B	B	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A					A	A	
Butane	C ₄ H ₁₀	A	A	B	C	A	A	A	A	A	A	A	A	A	A	B	D	A	A	A	A	A	A					A	A	
Butter	-	A			D	A	A	A	A																					
Buttermilk	-	A	D	D	D	A	A	A	D	A	A	A	D	A	A	A	A	A	A	A	A	A	A						A	
Butyl Acetate	C ₆ H ₁₂ O ₂	B	B	B	B	A	A	A	A	A	A	B	B	A	A	D	D	D	A	A	A	A	A					A	A	
Butylene	C ₄ H ₈	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	D	A	A	A	A	A					C	C	
Butyric Acid	C ₄ H ₈ O ₂	B	B	D	D	B	A	A	A	A	A	A	C	C	C	C	C	C	A	B	A	A	A					A	A	
Calcium Bisulfite	CaH ₂ O ₆ S ₂	C	D	D	D	B	B	A	D	B	A	A	C	B	A	D	A	A	A	D	A	A	A					A	A	
Calcium Carbonate	CaCO ₃	C	D	C	D	B	A	A	A	A	A	A	C	A	A	B	A	A	A	A	A	A	A					A	A	
Calcium Chlorate	Ca(ClO ₃) ₂	B	C	B	C	B	A	A	A	A	A	B	B	B	B	B	B	B	B	C	A	A	A							
Calcium Chloride	CaCl ₂	D	C	C	C	B	B	A	A	A	A	A	B	C	A	A	A	A	A	D	A	A	A					A	A	
Calcium Hydroxide	Ca(OH) ₂	C	D	C	C	B	A	A	A	A	A	A	C	B	A	A	A	A	A	D	A	A	A					A	A	
Calcium Nitrate	Ca(NO ₃) ₂	C	B	B	C	B	B	A	A	A	A	B	B	C	B	B	A	A	B	D	A	A	A					A	B	
Calcium Phosphate	Ca ₃ (PO ₄) ₂	D	C	C	C	B	B	B	B	B	B																			
Calcium Silicate	Ca ₂ SiO ₄	D	C	C	C	B	B	B	B	B	B	A																		
Calcium Sulfate	CaO ₄ S	C	B	B	C	C	A	A	A	B	A	A	B	B	A	A	A	A	A	D	A	A	A					A	A	
Caliche Liquor	-																													
Camphor	C ₁₀ H ₁₆ O	C	C	B	C	B	A	A	C																					
Cane Sugar Liquors	C ₁₂ H ₂₂ O ₁₁	B	B	A	B	A	A	A	A	A	A	A	A	A	A	B	B	B	A	A	A	A	A							
Carbonated Beverages	-	B	B	D	B	B	B	B	C	A																				
Carbonated Water	-	A	D	B	C	A	B	A	B																					
Carbon Bisulfide	CS ₂	B	C	B	B	B	A	B	B	B	B	B	B	A	D	D	A	A	A	A	A	A								
Carbon Dioxide (dry)	CO ₂	B	B	B	B	A	A	A	A	A	A	A	B	A	A	C	B	B	A	A	A	A	A					A	A	
Carbonic Acid	CH ₂ O ₃	A	D	B	D	B	A	A	A	B	B	C	A	B	A	B	B	A	A	B	A	A	A					A	A	
Carbon Monoxide	CO	A	A	B	C	A	A	A	A	A	A	A	A	A	A	A	B	B	A	A	A	A	A					A	A	
Carbon Tetrachloride (dry)	CCl ₄	C	B	C	C	A	A	A	A	A	A	A	B	B	D	D	B	B	B	B	A	A	A					A	B	
Carbon Tetrachloride (wet)	CCl ₄	D	C	D	D	B	A	B	A	A	A	C	A	A	D	D	B	B	B	B	A	A	A					A	A	
Casein	-	C	C	C	C	B	B	C	B																					
Castor Oil	-	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	B	A	A	A	A	A	A					A	A	

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Caustic Potash	HKO	C	C	B	B	A	A	A	A	A	A	A	A	A	A	B	C	C	A	D	A	A	A	A	A			
Caustic Soda	HNao	D	D	B	B	A	A	A	A	A	A	A	A	A	A	C	B	C	A	D	A	A	A	A	A	A		
Cellulose Acetate	-	B	B			B		B								D	B	D		C								
China Wood Oil (Tung)	-	A	C	C	C	A	A	A	A	A	A	A	A	A	A	A	D	A		A								
Chlorinated Solvents	-	C	C	C	C	C	C	C	C	C	C	C	C	C	C	D	D	C		A								
Chlorinated Water		D	D	C	D	C	C	A	C	B	A	A	A	A	A	B	C	A	B	D	D	A	A	A	A			
Chlorine Gas (dry)	Cl ₂	C	D	C	B	B	A	A	A	A	A	A	A	A	A	C	D	B	A	D	D	A	A	B	A	A	D	
Chlorobenzene (dry)	C ₆ H ₅ Cl	B	B	C	A	A	A	A	A	A	A	A	A	A	A	D	D	A	A	C	C	B	A	A	A	A	B	
Chloroform (dry)	CHCl ₃	C	B	C	C	A	A	A	A	A	A	A	A	A	A	D	D	B	A	B	A	C	A	B	A	A	C	
Chlorophyll (dry)	-	B	B			B	B	A	B	A	A	A	A	A	A	B	B	B										
Chlorosulfonic Acid (dry)	HSO ₃ Cl	C	C	C	B	C	C	B	A	B	A	A	A	A	A	D	D	A	D	B	D	A	A	D	A	A	A	
Chrome Alum	CrK ₂ O ₈ S ₂	C	C	B	C	A	A	B	A	B	A	A	A	A	A	B	B	B		B								
Chromic Acid <50%	CrH ₂ O ₄	D	D	D	D	C	B	C	B	C	A	A	A	A	A	D	C	C	C	D	D	A	A	A	A	D	A	
Chromic Acid >50%	CrH ₂ O ₄	D	D	D	D	C	C	B	D	C	B	D	C	B	D	D	C	C	C	D	D	A	A	A	A	D	A	
Chromium Sulfate	Cr ₂ O ₁₂ S ₃	B	C	D	D	B	B	C	B	B	C	B	B	B	B	B	B	B		C								
Cider	-	B				D	A	A	B	A	A	A	A	A	A	D	A	A	A	A								
Citric Acid	C ₆ H ₈ O ₇	C	D	D	D	C	A	A	A	A	A	A	A	A	A	D	B	A	A	C	A	A	A	A	A	A	A	
Citrus Juices	-	C	B	D	D	B	A	A	A	A	A	A	A	A	A	A	A	A		A								
Coca Cola Syrup	-					A	A	A	A	A	A	A	A	A	A	A	B	B		A								
Coconut Oil	-	B	B	C	C	A	A	A	B	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	
Coffee	-	A	A	C	C	A	A	B	A	A	A	A	A	A	A	A	A	A		A								
Coffee Extracts (hot)	-	A	A	C	C	A	A	A	A	A	A	A	A	A	A	A	A	A		A								
Coke Oven Gas	-	A	C	B	B	A	A	A	B	A	A	A	A	A	A	C	D	B	C	C								
Cooking Oil	-	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	A	A	A	
Copper Acetate	C ₄ H ₆ CuO ₄	D	D	C	D	A	A	B	A	A	A	A	A	A	A	C	B	D		C	A	A	A	A	A	A	A	
Copper Carbonate	CCuO ₃	D				A	A	A	A	A	A	A	A	A	A					A								
Copper Cyanide	CCuN	D	D	C	D	A	A	C	A	C	A	A	A	A	A	A	B	B	A	B	A	A	A	A	A	A	A	
Copper Nitrate	Cu(NO ₃) ₂	D	D	D	D	B	A	D	B	B	D	A	B	D	A	A	B	A	A	A	A	A	A	A	A	A	A	
Copper Sulfate	CuO ₄ S	D	D	D	D	B	A	A	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Corn Oil	-	B	B	B	C	B	A	A	B	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	
Cotton seed Oil	-	B	B	B	C	B	A	A	B	A	A	A	A	A	A	A	C	B	B	B	A	A	A	A	A	A	A	

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No information

Media	Chemical Formula	Metals											Elastomers					Polymers										
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SS	17-4PH	Alloy 20	Monel	Hastelloy C	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin	PEEK	PVDF	Teflon and Reinforced Teflon	PCTFE	UHMWPE	VespeI	PFA	KEL-F
Cresol	C7H8O	A	C	A	C	B	A	A	B	B	B	A	A	A	D	D	D	A	D	D	D	B	A	A	A			
Creosote Oil	-	B	B	B	B	A	A	A	A	A	A	B	A	A		C	D	A	D	A	A	A	A	A	A			
Cresylic Acid	C7H8O	C	B	C	D	B	A	A	A	A	A	C	A	A		D	D	B	A	D	A	C	A	A		A		
Crude Oil, sour	-	A	C	C	C	B	A	A	B	A	A	D	B	A		A	D	A	A	A	A	A	A		A			
Crude Oil, sweet	-	A	B	A	B	A	A	A	A	A	A	B	A	A		A	D	A	A	A	A	A	A		A			
Cupric Nitrate	CuN2O6	D				A	A	A	A	A	D									D								
Cutting Oils, Water Emulsions	-	A	A	B	B	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A						
Cyanide Plating Solution	-	D	D		D	B	B	D	A	A						B	B	B	D	D								
Cyclohexane	C6H12	A	A	A	A	A	A	A	A	A	A	A	A	A		C	D	A	A	A	A	A	A	A	A	A	A	A
Cyclohexanone	C6H10O	A	B	B	B	A	A	B	B	A	B	B	A	A		D	B	D	A	A	A	C	A	A	A	A	A	B
Detergents, Synthetic	-	B	B	A	B	B	A	A	A	A	A	A	A	A		B	B	A	A	A	A	A	A	A	A	A	A	A
Dextrin	C18H32O16	B	A	B	B	B	B	A	A	B	A	A	A	A		B	B	B	A	A	A							
Dichloroethane	C2H4Cl2	B	B		C	A	B	B	B	A	B	D	B	B		D	D	B	A	B	A	A	A					A
Dichloroethyl Ether	C4H8Cl2O	B	B	A	B	B	B	B	B	A	B	B	A	A		D	C	D	C	A	A	A	A	D				A
Diesel Oil Fuels	-	A	A	A	A	A	A	A	A	A	A	A	A	A		A	D	A	A	A	A	B	A	A	A	A	A	B
Diethylamine	C4H11N	B	C	C	C	B	A	A	A	A	B	A	A	A		B	C	D	A	B	A	B	A	A				A
Diethyl Benzene	-					B										D	D	A	C									
Diethylene Glycol	C4H10O3	B	B	A	A	A	B	A	B	B	A	A	B	A		A	A	B	A	B	A	A	A					A
Diethyl Sulfate	(C2H5)2SO4	A	B	A	B	B	B	B	A	A	A	A	A	A		C	C	B	A	A	A	A	A					A
Dimethyl Formamide	C3H7NO	B	B	B	B	B	A	A	A	A	A					B	B	D	C	A	A	A	A					A
Dimethyl Phthalate	C10H10O4	B	A	A	B	B	A	A	A	A	A					B	B	D	C	A	A	A	A					A
Dioxane	C4H8O2	B	A	A	B	B	A	A	A	A	A	A	A	A		D	C	D	A	C	A	A	A					
Dipentane (Pinene)	C10H16	A	A		A	A	A	A	A	A						B	D	B	A	A								
Disodium Phosphate	HNazO4P	B	B	B	B	B	A	B	A	B	A	B	B	A		B	B	B	A	A	A	A						
Dowtherm	C24H20O	A	A	B	B	A	A	A	A	A	A	A	A	A		D	D	A	A	A	A	A						
Drilling Mud	-	B	B	A	A	A	A	A	A	A	A	B	A	A		B	A	A	A	A	A	A						
Dry Cleaning Fluids	-	A	C	B	B	A	A	A	A	A	A					B	A	B	A	D								
Drying Oil	-	C	C	C	B	B										B	A											
Enamel	-	A																										
Epsom Salts	MgO4S	B	A	C	A	B	A	B	B	B	A	A	A	A		B	A	A	A	B								A
Ethane	C2H6	A	B	B	A	A	A	A	A	A	A	A	A	A		A	D	A	A	B	A	A						

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Media	Chemical Formula	Metals											Elastomers					Polymers									
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SS	17-4PH	Alloy 20	Monel	Hastelloy C	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin	Peek	PVDF	Teflon and Reinforced Teflon	PCTFE	UHMWPE	Vespel	PFA
Ethers	H ₂ O	B	A	B	B	A	A	A	A	A	A	A	A	A	D	C	C	C	A	C	A	C	A	A	A	A	C
Ethyl Acetate	C ₄ H ₈ O ₂	B	B	B	B	B	A	A	A	B	A	B	A	A	D	C	C	D	A	A	A	B	A	A	A	A	B
Ethyl Acrylate	C ₈ H ₁₀ O ₂	B	B	A	B	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	A	A	A	A	A	A
Ethyl Benzene	C ₈ H ₁₀	A	A	A	B	B	A	A	A	A	A	A	A	A	D	C	D	D	A	A	A	A	A	A	A	A	A
Ethyl Bromide	C ₂ H ₅ Br	B	A	A	B	B	A	C	B	A	A	A	A	A	D	C	D	D	A	A	A	A	A	A	A	A	A
Ethyl Chloride (dry)	C ₂ H ₅ Cl	B	B	B	B	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	B
Ethyl Chloride (wet)	C ₂ H ₅ Cl	D	C	C	D	B	B	B	B	C	A	B	A	A	D	C	D	D	A	B	A	B	A	A	A	A	B
Ethylene Chloride	C ₂ H ₄ Cl ₂	B	B	C	C	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	B
Ethylene Dichloride	C ₂ H ₄ Cl ₂	B	B	A	A	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	B
Ethylene Glycol	C ₂ H ₆ O ₂	A	B	B	B	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Ethylene Oxide	C ₂ H ₄ O	D	D	B	C	B	B	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Ethyl Ether	C ₄ H ₁₀ O	B	B	A	B	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	B
Ethyl Silicate	C ₈ H ₂₀ O ₄ Si	B	B	A	B	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	B
Ethyl Sulfate	C ₄ H ₁₀ O ₄ S	A	A	D	D	B	B	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Fatty Acids	R-COOH	C	C	D	D	B	B	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Ferric Hydroxide	Fe(OH) ₃	C	C	D	D	B	B	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Ferric Nitrate	Fe(NO ₃) ₃	D	D	D	D	B	B	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Ferric Sulfate	Fe ₂ (SO ₄) ₃	D	C	D	D	B	B	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Ferrous Ammonium Citrate	C ₆ H ₁₅ (+4y)Fe(x)N(y)O ₇	B	B	A	A	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Ferrous Chloride	Cl ₂ Fe	D	D	D	D	B	B	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	C
Ferrous Sulfate	FeH ₂ O ₄ S	C	C	D	D	B	B	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Ferrous Sulfate (Saturated)	-	C	C	C	C	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Fertilizer Solutions	-	D	C	A	A	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Fish Oils	-	B	B	A	A	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Flue Gases	CO	C	B	A	B	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Fluoboric Acid	BF ₃ H	C	C	B	A	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	B
Fluorosilicic Acid	FeH ₂ Si	D	B	D	D	B	B	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	C
Formaldehyde (cold)	CH ₄	B	B	B	B	A	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	A
Formaldehyde (hot)	CH ₄	B	B	C	D	C	B	B	B	B	B	B	B	B	D	C	D	D	A	B	A	B	A	A	A	A	A
Formic Acid (cold)	CH ₂ O ₂	B	D	D	D	B	A	A	A	A	A	A	A	A	D	C	D	D	A	B	A	B	A	A	A	A	B
Formic Acid (hot)	CH ₂ O ₂	B	D	D	D	B	B	B	B	B	B	B	B	B	D	C	D	D	A	B	A	B	A	A	A	A	A

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Media	Chemical Formula	Metals										Elastomers					Polymers											
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 S5t	17-4PH	Alloy 20	Monel	Hastelloy C	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin	Peek	PVDF	Teflon and Reinforced Teflon	PCTFE	UHMWPE	Vespele	PFA	KEL-F
Freon Gas (dry)	-	B	A	B	B	A	A	A	A	A	A	A	A	A	C	C	C	C	A	A	A	A	A	A	A	A	A	A
Freon 11, MF, 112, BF	CCl3F	D	A	B	C	A	A	A	A	A	B	B	A	A	C	C	C	C	A	D	D	A	A	A	A	A	A	A
Freon 12, 32, 114, 115	CCl2F2	B	A	B	B	A	A	A	A	A	B	B	B	A	B	B	B	B	A	B	A	C	A	A	A	A	A	C
Freon 21, 31	CHCl2F	B	A	B	C	A	A	A	A	A	B	B	C	A	D	D	D	D	A	A	A	A	A	A	A	A	A	A
Freon 22	CHClF2	D	A	B	C	A	A	A	A	A	B	B	A	A	D	D	D	D	A	A	A	A	A	A	A	A	A	A
Freon 113, TF	C2Cl3F3	D	A	B	C	A	A	A	A	A	C	B	C	A	D	D	D	D	A	A	A	B	A	A	A	A	A	A
Freon (wet)	-	D	B	D	D	C	B	B	B	B	B	B	B	B	B	B	B	B	D	A	B	A	A	A	A	A	A	A
Fruit Juices	-	B	D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	D	A	A	A	A	A
Fuel Oil	-	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Fumaric Acid	C4H4O4																											
Furfural	C5H4O2	A	A	A	B	A	A	A	A	A	A	A	A	A	A	D	C	D	A	B	A	D	A	A	A	A	A	D
Galic Acid 5%	C7H6O5	B	C	D	D	B	B	B	B	B	B	B	B	B	B	B	C	A	B	A	B	A	A	A	A	A	A	A
Gas, Manufactured	-	C	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Gas, Natural	-	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Gas, Odorizers	-	A	A	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Gasoline (aviation)	-	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	C	D	A	A	A	A	A	A	A	A	A	A
Gasoline (leaded)	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	D	A	A	A	A	B	A	A	A	A	A
Gasoline (motor)	-	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	C	D	A	A	A	A	A	A	A	A	A	A
Gasoline (refined)	C12H13N5O6S2	A	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Gasoline (sour)	-	A	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Gasoline (unleaded)	-	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	C	D	A	A	A	A	B	A	A	A	A	A
Gelatine	-	A	C	D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glucose	C6H12O6	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glue	-	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glycerine (Glycerol)	C3H8O3	A	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glycol Amine	-	C	D	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glycol	C2H6O2	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Graphite	CH4	B	B	B	C	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Grease	-	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Helium Gas	He	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Heptane	C7H16	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

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Hexane	C6H14	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Hexanol, Tertiary		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Hydraulic Oil Petr. Base	-	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Hydrazine	H4N2	C	D	C	D	B	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Hydrocyanic Acid	CHN	C	D	D	C	A	B	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Hydrofluoric Acid 20%	HF	D	D	D	D	D	C	B	A	B	A	B	D	C	D	D	A	A	D	A	D	B	B	A	C			B
Hydrofluoric Acid 50%	HF	D	D	D	D	D	D	C	B	C	D	D	D	C	D	D	B	A	D	A	D	B	B	A	C			B
Hydrofluoric Acid 75%	HF	D	D	D	D	D	D	C	B	C	D	D	D	C	D	D	B	A	D	A	D	B	B	A	C			B
Hydrofluoric Acid 100%	HF	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	B	A	D	A	D	B	B	A	C			A
Hydrofluosilicic Acid	H2SiF6	D	B	D	D	C	B	B	C	D	B	C	D	B	C	D	B	A	B	B	B	B	A	A				B
Hydrogen Gas (cold)	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B
Hydrogen Gas (hot)	H	C		B		B		A		A		A		A		B	B			A		A						B
Hydrogen Peroxide Conc.	H2O2	C	D	D	D	B	A	A	C	B	A	B	D	B		D	C	B	C	D	A	B	A	A	A	A	A	A
Hydrogen Peroxide, Dilute	H2O2	C	D	D	D	B	A	A	B	A	B	D	B		D	C	B	C	D	A	B	A	A	A	A	A	A	A
Hydrogen Sulfide (dry)	H2S	C	C	C	C	C	B	B	B	B	A	D	C		C	C	A	D	A	C	A	B	A	A	A	A	A	B
Hydrogen Sulfide (wet)	H2S	C	C	C	C	C	C	B	C	B	B	D	C		C	C	B	D	A	C	A	B	A	A	A	A	A	B
Hypo (Sodium Thiosulfate)	Na2S2O3	B	C	D	D	B	A	B	B		B	B			C	A	A	A	A	A	A	A	A	A	A	A	A	A
Illuminating Gas	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ink-Newsprint	C11H16O3P+	C	C	D	D	A	A	B	A	B	A	B			B	C	A	A	A	A	A	A	A	A	A	A	A	A
Iodoform	CHI3	C	C	B	C	A	A	A	C	B	B				B	C	A	A	A	A	A	A	A	A	A	A	A	A
Iso-Butane	C4H10	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Iso-Octane	C8H18	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Isopropyl Acetate	C5H10O2	B		B	C	B	A	A	A	A	A	A	B	B		D	D	D	A	D	A	B	A	A	A	A	A	B
Isopropyl Ether	C6H14O	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
JP-4 Fuel	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
JP-5 Fuel	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
JP-6 Fuel	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Kerosene	-	B	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ketchup	-	C		C	C	A	A	A	A	A	A				A		A		A		A		A					A
Ketones	CH2O	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C
Laquer (and Solvent)	-	A	C	D	C	B	B	A	A	A	A	A	B		D	D	D	D	A	D	A	D	A	A	A	A	A	A

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No information

Media	Chemical Formula	Metals										Elastomers					Polymers										
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SS	17-4PH	Alloy 20	Monel	Hastelloy C	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin	Peek	PVDF	Teflon and Reinforced Teflon	PCTFE	UHMWPE	Vespe	PFA
Lactic Acid Concentrated (cold)	C ₃ H ₆ O ₃	C	D	D	D	A	A	A	A	A	A	A	A	A	A	B	B	A	A	A	C	A	B	A	A	A	B
Lactic Acid Concentrated (hot)	C ₃ H ₆ O ₃	C	D	D	D	B	B	B	B	B	B	B	B	B	B	C	C	B	A	A	C	A	C	A	A	A	
Lactic Acid Dilute (cold)	C ₃ H ₆ O ₃	B	D	D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	A	B	A	A	A	B
Lactic Acid Dilute (hot)	C ₃ H ₆ O ₃	B	D	D	D	A	A	A	A	A	A	A	A	A	A	C	C	B	A	A	B	A	C	A	A	A	
Lactose	C ₁₂ H ₂₂ O ₁₁	B	B	C	C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Lard	-	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Lard Oil	-	B	B	C	C	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	
Lead Acetate	C ₄ H ₆ O ₄ Pb	D	C	C	D	B	B	B	B	B	B	B	B	B	A	A	D	A	A	B	A	A	A	A	A	A	A
Lead Sulfate	O ₄ PbS	D	C	C	D	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A
Lecithin	C ₄₆ H ₈₈ NO ₈ P ₄	B	C	C	C	B	B	B	B	B	B	B	B	B	A	D	D	B	B	A	A	A	A	A	A	A	
Linoleic Acid	C ₁₈ H ₃₂ O ₂	B	C	C	C	B	B	B	B	B	B	B	B	B	A	B	D	B	A	B	A	A	A	A	A	A	
Linseed Oil	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Lithium Chloride	CLi	C	B	C	B	B	B	B	B	B	B	B	B	B	A	B	B	A	A	A	A	A	A	A	A	A	
Liquid Petroleum Gas (LPG)	C ₃ H ₇ NO ₂	A	A	A	A	B	B	B	B	B	B	B	B	B	A	A	D	A	A	A	A	A	A	A	A	A	
Lubricating Oil Petroleum Base	C ₆ H ₆	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	A	A	
Ludox	O ₂ Si	C	D	A	A	B	B	B	B	B	B	B	B	B	C	B	B	B	B	B	A	A	A	A	A	A	
Magnesium Bisulfate	HMgO ₄ S+	D	B	B	B	B	B	B	B	B	B	B	B	B	A	B	B	B	B	A	A	A	A	A	A	A	
Magnesium Bisulfate	-	C	D	B	B	D	B	B	B	B	B	B	B	B	A	B	B	B	B	A	A	A	A	A	A	A	
Magnesium Carbonate	CMgO ₃	A	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B	A	A	A	A	A	A	A	
Magnesium Chloride	Cl ₂ Mg	D	C	C	D	C	D	C	D	C	D	C	D	C	A	B	B	B	A	A	A	A	A	A	A	A	A
Magnesium Hydroxide	H ₂ MgO ₂	D	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	A	A	A	A	A	A	A	A	A
Magnesium Hydroxide (hot)	H ₂ MgO ₂	D	C	B	B	A	A	A	A	A	A	A	A	A	B	B	B	B	A	A	A	A	A	A	A	A	A
Magnesium Nitrate	MgN ₂ O ₆	B	C	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B	A	A	A	A	A	A	A	
Magnesium Sulfate	MgO ₄ S	B	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	A	A	A	A	A	A	A	A	A
Maleic Acid	C ₄ H ₄ O ₄	B	B	C	C	B	B	A	A	A	A	A	A	A	A	B	D	A	A	A	A	A	A	A	A	A	A
Maleic Anhydride	C ₄ H ₂ O ₃	B	B	B	B	A	A	A	A	A	A	A	A	A	A	D	D	B	B	D	A	A	A	A	A	A	
Malic Acid	C ₄ H ₆ O ₅	B	B	D	D	B	B	A	A	A	A	A	A	A	A	D	A	A	B	A	A	A	A	A	A	A	
Malt Beverages	-	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A	A	
Manganese Carbonate	-	B	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	A	A	A	A	A	A	A	A	
Manganese Sulfate	MnO ₄ S	B	D	B	D	A	B	A	A	A	A	A	A	A	A	B	B	B	A	B	A	A	A	A	A	A	B
Mayonnaise	-	D	D	D	D	A	B	A	B	A	B	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	

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Media	Chemical Formula	Metals											Elastomers					Polymers										
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SS	17-4PH	Alloy 20	Monel	Hastelloy C	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin	Peek	PVDF	Teflon and Reinforced Teflon	PCTFE	UHMWPE	Vespe	PFA	KEL-F
Meat Juices	-	B	D			A	A																A	A	A			
Melamine Resins	C ₃ H ₆ N ₆		D		D	C	C		A														A	A	A			
Methanol	CH ₄ O	A	A	A	A	A	A	A	A														A	A	A			
Mercuric Chloride	Cl ₂ Hg	D	D	D	D	D	D	D	B														A	A	A			
Mercuric Cyanide	C ₂ HgN ₂	D	D	D	D	B	C	A	D														A	A	B			
Mercurous Nitrate	HgNO ₃	D	D	D	D	A	A	A	D														A	A	A			
Mercury	Hg	C	D	A	A	A	A	A	B														A	A	A			
Methane	CH ₄	A	A	A	A	A	A	A	A														A	A	A			
Methyl Acetate	C ₃ H ₆ O ₂	A	A	A	A	A	A	A	A														A	A	A			
Methyl Acetone	C ₄ H ₈ O	A	A	A	A	A	A	A	A														A	A	A			
Methyl Amine	CH ₅ N	B	C	B	B	A	A	A	C														A	A	A			
Methyl Bromide 100%	CH ₃ Br	C	C	C	D	B	B	B	B														A	A	A			
Methyl Cellosolve	C ₃ H ₈ O ₂	B	A	B	B	A	A	A	A														A	A	A			
Methyl Cellulose	-																						A	A	A			
Methyl Chloride	CH ₃ Cl	D	C	A	B	A	A	A	A														A	A	A			
Methyl Ethyl Ketone	C ₄ H ₈ O	B	A	A	A	A	A	A	A														A	A	A			
Methylene Chloride	CH ₂ Cl ₂	C	B	B	B	A	A	A	A														A	A	A			
Methyl Formate	C ₂ H ₄ O ₂	B		C	B	A	A	A	A														A	A	A			
Methyl Isobutyle Ketone	C ₆ H ₁₂ O	B		C	B	A	A	A	A														A	A	A			
Milk & Milk Products	-	C	C	C	D	A	A	A	A														A	A	A			
Mineral Oils	-	A	A	A	B	A	A	A	A														A	A	A			
Mineral Spirits	-	A	B	B	B	A	B	B	B														A	A	A			
Mixed Acids (cold)	-	D	D	C	C	B		B	C														A	A	A			
Molasses, crude	-	B	B	A	A	A	A	A	A														A	A	A			
Molasses, Edible	-	A	B	A	C	A	A	A	A														A	A	A			
Molybdic Acid	H ₂ MoO ₄																						A	A	A			
Monochloro Benzene (dry)	C ₆ H ₅ Cl	B	B	B	A	A	A	A	A														A	A	A			
Morphine	C ₁₇ H ₁₉ NO ₃	B	B	B	B	A		A	B														A	A	A			
Mustard	C ₄ H ₈ Cl ₂ S	B	A	B	B	A		A	A														A	A	A			
Naptha	-	A	A	A	B	A	A	A	A														A	A	A			
Napthalene	C ₁₀ H ₈	A	B	A	B	A	A	A	A														A	A	A			

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Media	Chemical Formula	Metals										Elastomers					Polymers											
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SSt	17-4PH	Alloy 20	Monel	Hastelloy C [®]	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin [®]	Peek [®]	PVDF	Teflon [®] and Reinforced	PCTFE	UHMWPE [®]	Vespe [®]	PFA	KEL-F [®]
Natural Gas, Sour	-	B	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Nickel Ammonium Sulfate	H ₁₈ N ₂ NI ₀ S ₂	D	D	D	D	A	A	C																				
Nickel Chloride	Cl ₂ NI	D	D	D	D	B	B	A	C	A	A	D	D															
Nickel Nitrate	N ₂ NI ₀ 6	D	D	D	D	B	A	A	C	B	B	C	B															
Nickel Sulfate	NI ₀ 4S	D	D	D	D	B	B	A	B	C	B	C	B															
Nicotinic Acid	C ₆ H ₅ NO ₂	A	A	C	C	A	A	B																				
Nitric Acid 10%	HNO ₃	C	D	D	D	B	A	A	D	B	A	D	A															
Nitric Acid 30%	HNO ₃	D	D	D	D	B	B	A	D	A	A	D	A															
Nitric Acid 80%	HNO ₃	D	D	D	D	B	C	A	D	B	B	D	A															
Nitric Acid 100%	HNO ₃	B	D	D	D	B	C	A	D	B	B	D	A															
Nitric Acid Anhydrous	-	B	D	D	C	B	D	A	D																			
Nitrobenzene	C ₆ H ₅ NO ₂	B	D	A	A	B	A	A	B	B	A	B	B															
Nitrogen	N ₂	A	A	A	A	A	A	A	A	A	A	A	A															
Nitrous Acid 10%	HNO ₂	D	D	D	D	B	B	D	C																			
Nitrous Gases	-	B	D	B	C	A	A	D																				
Nitrous Oxide	N ₂ O	B	B	B	C	B	B	D	B																			
Oils&Fats	-	B																										
Oils&Animal	-	A	A	A	A	A	A	A	B	A																		
Oils, Petroleum (refined)	C ₆ H ₆	A	B	A	B	A	A	A	A	A	A	A	A															
Oils, Petroleum (sour)	C ₆ H ₆	A	C	B	C	A	A	A	A	A	A	A	A															
Oils, Water Mixture	-	A	A	B	B	A	A	A	A	A	A	A	A															
Olaic Acid	-	B																										
Oleic Acid	C ₁₈ H ₃₄ O ₂	B	D	C	C	B	A	A	B	B	B	C	A															
Oleum	H ₂ O ₄ S	C	C	B	D	B	B	C	B																			
Oleum Spirits	-	D	D		D	B																						
Olive Oil	-	A	B	B	A	A	A	A	A	A	A	A	A															
Oxalic Acid	C ₂ H ₂ O ₄	C	C	C	D	B	B	B	B	B	A	C	B															
Oxygen	O ₂	A	A	A	A	A	A	A	A	A	A	A	A															
Ozone (dry)	O ₃	A	A	A	A	A	A	A	A	A	A	A	A															
Ozone (wet)	O ₃	B	B	B	C	A																						
Paints & Solvents	-	A	A	A	A	A	A	A	A	A	A	A	A															

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Media	Chemical Formula	Metals										Elastomers					Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SS	17-4PH	Alloy 20	Monel	Hastelloy C ^o	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin [®]	Peek [®]	PVDF	Teflon [®] and Reinforced	Teflon	PCTFE	UHMWPE [®]	Vespel [®]	PFA	KEL-F [®]
Palmitic Acid	C ₁₆ H ₃₂ O ₂	B	C	C	C	B	A	A	A	A	A	A	A	B	B	A	A	A	A	A	A	B	A	A	A	A	A		
Palm Oil	-	A	B	C	C	B	A	A	A	A	A	A	A	B	D	A	A	A	A	A	A	A	A	A	A	A	A		
Paper Pulp	-	C	B	B	B	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	A	A	A	A	A	A		
Paraffin	C _n H _{2n+2}	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Paraformaldehyde	CH ₂ O	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		
Paraldehyde	C ₆ H ₁₂ O ₃																												
Pentane	C ₅ H ₁₂	A	A	B	B	A	A	A	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A		
Perchloroethylene (dry)	C ₂ Cl ₄	B	C	B	B	A	A	A	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A		A
Petrolatum (Vaseline Petr. Jelly)	-	B	B	C	C	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Phenol	C ₆ H ₆ O	A	D	C	D	A	A	A	A	A	A	A	A	A	B	B	A	A	A	A	A	C	D	B	A	A	A	A	B
Phosphate Ester 10%	-	C	D	A	C	A	A	A	A	A	A	A	A	C	D	A	A	A	A	A	A	A	A	A	A	A	A		
Phosphate Acid 10%	-	C	D	D	D	C	B	B	D																				
Phosphoric Acid 50% (cold)	H ₃ O ₄ P	D	D	D	D	C	B	B	D	B	D	B	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	A	A
Phosphoric Acid 50% (hot)	H ₃ O ₄ P	D	D	D	D	C	B	D	D	B	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	A	A
Phosphoric Acid 85% (cold)	H ₃ O ₄ P	D	D	D	D	C	B	D	D	B	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	A	A
Phosphoric Acid 85% (hot)	H ₃ O ₄ P	D	D	D	D	C	B	D	D	B	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	A	A
Phosphoric Anhydride	P ₂ O ₅	C																											
Phosphorus Trichloride	PCl ₃	C																											
Phthalic Acid	C ₈ H ₆ O ₄	C	B	D	C	B	A	A	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Phthalic Anhydride	C ₈ H ₄ O ₃	B	B	D	C	B	A	A	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Picric Acid	C ₆ H ₃ N ₃ O ₇	C	D	D	D	B	B	D	B	D	B	D	B	A	C	B	A	A	A	A	A	A	A	A	A	A	A	A	A
Pineapple Juice	-	A	C	C	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Pine Oil	-	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Pitch (Bitumen)	C ₆ H ₆																												
Polysulfide	-	C	D																										
Polyvinyl Acetate	C ₆ H ₁₂ O ₂	B	B	C	B	B	B	B	B	A	B	B	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Polyvinyl Chloride	C ₂ H ₃ Cl	B	D																										
Potassium Bicarbonate	CHKO ₃	C	A	D	A	B	A	B	B	A	A	B	B	A	C	B	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium Bichromate	Cr ₂ K ₂ O ₇	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium Bisulfate	HKO ₄ S	B																											
Potassium Bisulfite	HKO ₄ S	C	C	D	D	B	B	D																					

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No information

Media	Chemical Formula	Metals										Elastomers					Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SSt	17-4PH	Alloy 20	Monel	Hastelloy C	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin	Peek	PVDF	Teflon and Reinforced Teflon	PCTFE	UHMWPE	Vespel	PFA	KEL-F	
Potassium Bromide	BrK	C	C	C	D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Carbonate	K ₂ O ₃	C	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Potassium Chlorate	KClO ₃	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Potassium Chloride	KCl	D	C	C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Chromate	K ₂ Cr ₂ O ₄	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Cyanide	KCN	D	D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Dichromate	Cr ₂ K ₂ O ₇	B	D	C	C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Ferricyanide	C ₆ FeK ₃ N ₆	C	D	C	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Potassium Ferrocyanide	C ₆ FeK ₄ N ₆ +4	C	C	C	C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Hydroxide Dilute (cold)	HKO	D	D	B	D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Hydroxide to 70% (cold)	HKO	D	D	C	D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Hydroxide Dilute (hot)	HKO	D	D	B	D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Hydroxide to 70% (hot)	HKO	D	D	C	D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Iodide	IK	B	C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Nitrate	KNO ₃	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Oxalate	C ₂ K ₂ O ₄	B																				B	B	B	B	B	B	B	
Potassium Permanganate	KMnO ₄	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Phosphate (mono)	KH ₂ PO ₄	D	C		C	B	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Phosphate Di-basic	K ₂ HPO ₄	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Potassium Phosphate Tri-basic	K ₃ PO ₄	D																											
Potassium Sulfate	K ₂ O ₄ S	B	C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Sulfide	HK ₂ S+	C	D	D	C	A	B	B	D	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Potassium Sulfite	K ₂ O ₃ S	B	B	D	C	A	B	A	C	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Producer Gas	-	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Propane Gas	C ₃ H ₈	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Propyl Bromide	C ₃ H ₇ Br	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	
Propylene Glycol	C ₃ H ₈ O ₂	C	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Pyridine	C ₅ H ₅ N	B	B	B	B	B	B	B	A	C	B	B	B	B	B	B	B	B	B	B	B	D	B	D	A	A	A	A	
Pyrogallic Acid	-	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Quench Oil	-	A	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Quinine Sulfate (dry)	C ₄₀ H ₅₀ N ₄ O ₈ S																												

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No information

Media	Chemical Formula	Metals												Elastomers					Polymers											
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SSt	17-4PH	Alloy 20	Monel	Hastelloy C ^o	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin [®]	PEEK [®]	PVDF	Teflon [®] and Reinforced	Teflon	PCTFE	UHMWPE [®]	Vespel [®]	PFA	KEL-F [®]	
Resins & Rosins	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	
Resorcinol	C ₆ H ₆ O ₂	A	B	C	C	A	A	A	A	A	A	A	A	A	A	D	B	B	A	B	A	A	A	A	A	A	A	A	A	
Road Tar	C ₂ H ₄ O ₃	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	
Roof Pitch	-	A	A	B	B	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	A	A	A	
Rosin Emulsion	C ₁₅ H ₂₀ O ₆	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	A	A	A	A	A	A	
RP-1 Fuel	-	B	B	C	C	B	B	A	B	A	A	A	A	A	A	A	B	A	B	A	A	A	A	A	A	A	A	A	B	
Rubber Latex Emulsions	-	C	C	D	D	A	B	B	C	A	A	A	A	A	A	A	B	A	C	A	A	A	A	A	A	A	A	A	A	
Rubber solvents	-	B	B	C	C	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Salad Oil	-	B	B	D	D	B	B	B	B	B	B	B	B	B	B	A	A	B	A	A	A	A	A	A	A	A	A	A	A	
Salicylic Acid	C ₇ H ₆ O ₃																													
Salt (NaCl)	NaCl+H ₂ O	B	D	C	D	B	B	B	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	
Salt Brine	NaCl	C	C	C	D	B	A	B	A	B	A	A	A	C	B	A	B	B	A	A	A	A	A	A	A	A	A	A	A	
Sauerkraut Brine	-	A	B	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Sea Water	-	B	B			B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Sewage	-	D	D			C	C	A	B	A	A	A	A	D	D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Shellac	-	D	D	D	D	B	B	B	A	A	A	A	A	D	D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Silicone Fluids	Si	D	D	D	D	A	B	A	D	A	A	A	A	D	B	C	A	A	A	A	A	A	A	A	A	A	A	A	A	
Silver Bromide	AgBr	B				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Silver Cyanide	CAgN	C	B	B	B	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Silver Nitrate	CAgN	B	B	C	C	B	B	A	B	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Silver Plating sol.	-	D	B	B	C	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Soap Solutions (Stearates)	C ₂₁ H ₄₂ O ₄	B				B	B	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Sodium Acetate	C ₂ H ₄ O ₂	C	B	C	C	B	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Sodium Aluminate	AlNaO ₂	B				A	A	A	A	B	A	B	C	C	C	D	D	B	C	A	A	A	A	A	A	A	A	A	A	
Sodium Benzoate	C ₇ H ₆ O ₂	D	D	D	D	A	A	A	A	B	B	C	C	C	A	A	B	A	A	B	A	A	A	A	A	A	A	A	A	
Sodium Bicarbonate	CHNaO ₃	C	B	D	D	A	B	B	C	B	A	B	B	B	B	A	B	A	A	C	A	A	A	A	A	A	A	A	A	
Sodium Bichromate	Cr ₂ Na ₂ O ₇	C	B	C	C	D	B	A	A	A	A	B	B	B	B	A	B	A	A	A	A	A	A	A	A	A	A	A	A	
Sodium Bisulfate 10%	H ₂ NaO ₄ S	D	B	C	D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Sodium Bisulfite 10%	HNaO ₃ S	D	B	D	D	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Sodium Borate	C ₁₅ H ₂₀ O ₂	B	B	C	C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Sodium Bromide 10%	BrNa	B	B	C	D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	

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Media	Chemical Formula	Metals											Elastomers					Polymers									
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SS	17-4PH	Alloy 20	Monel	Hastelloy C	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin	Peek	PVDF	Teflon and Reinforced Teflon	PCTFE	UHMWPE	Vespele	PFA
Sodium Carbonate (Soda Ash)	Na ₂ CO ₃	D	B	B	B	B	A	A	B	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Chlorate	ClNaO ₃	C	B	B	C	B	A	B	C	B	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Chloride	ClNa	B	C	B	C	B	B	B	B	A	A	B	B	A	A	A	A	A	A	B	A	A	A	A	A	A	A
Sodium Chromate	CrNa ₂ O ₄	B	C	B	B	A	A	A	A	B	A	B	B	A	A	A	A	A	A	D	A	A	A	A	A	A	A
Sodium Citrate	C ₆ H ₅ Na ₃ O ₇	D				A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Cyanide	CNNa	D	D	B	B	A	A	B	A	B	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Ferricyanide	CaFeNa ₃	B			C	B	B	A	B	B	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Fluoride	FNa	B	C	D	D	B	B	A	B	A	A	B	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Hydroxide 20% (cold)	NaOH	D	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Hydroxide 20% (hot)	NaOH	D	C	B	B	A	A	B	B	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Hydroxide 50% (cold)	NaOH	D	D	A	B	A	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	B
Sodium Hydroxide 50% (hot)	NaOH	D	D	B	B	A	A	B	B	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Hydroxide 70% (cold)	NaOH	D	D	C	B	A	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Hydroxide 70% (hot)	NaOH	D	D	C	B	A	A	B	B	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Hypochlorite (Bleach)	ClNaO	D	D	D	D	D	D	D	D	A	A	C	D	D	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Hyposulfite	Na ₂ S ₂ O ₄	B				B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Sodium Lactate	C ₃ H ₅ NaO ₃	D				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Metaphosphate	Na ₆ O ₁₈ P ₆	C	D	C	B	B	A	A	B	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Metasilicate (cold)	Na ₂ O ₃ Si	D	B	B	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Metasilicate (hot)	Na ₂ O ₃ Si	D	B	C	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Nitrate	NNaO ₃	B	B	B	B	A	A	B	B	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Nitrite	NNaO ₂	A	B	B	B	A	A	A	B	B	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Perborate	BNaO ₃	C	D	B	C	C	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Peroxide	Na ₂ O ₂	C	C	C	D	B	A	A	A	A	A	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Phosphate (mono)	NaH ₂ PO ₄	D	C	B	D	B	A	A	A	B	A	C	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Phosphate Di-basic	Na ₂ HPO ₄	D	C	C	C	B	A	B	B	A	A	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Phosphate Tri-basic	Na ₃ PO ₄	D	C	C	C	B	A	B	B	A	A	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Polyphosphate	Na ₆ O ₁₈ P ₆	D	D			D	B	B	B	A	A	C	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Salicylate	C ₇ H ₅ NaO ₃					A	A	A	A	A	A																
Sodium Silicate	Na ₂ O ₃ Si	B	C	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Silicate (hot)	Na ₂ O ₃ Si	C	D	C	C	B	B	B	B	B	B	D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A

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Media	Chemical Formula	Metals										Elastomers					Polymers											
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SS	17-4PH	Alloy 20	Monel	Hastelloy C	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin	Peek	PVDF	Teflon and Reinforced Teflon	PCTFE	UHMWPE	Vespe	PFA	KEL-F
Sodium Sulfate	Na ₂ O ₄ S	A	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A
Sodium Sulfide	HNaS	D	D	C	B	A	A	A	A	B	A	B	B	B	B	A	A	A	A	B	A	A	A	A	A	A	A	B
Sodium Sulfite	NaO ₃ S	C	C	B	A	A	A	A	C	A	A	B	B	B	B	A	A	B	A	A	A	A	A	A	A	A	A	A
Sodium Tetraborate	C ₁₅ H ₂₂ O ₂	C	D	A	A	A	A	A	B	B	A	B	B	B	B	A	A	A	A	B	A	A	A	A	A	A	A	A
Sodium Thiosulfate	Na ₂ S ₂ O ₃	A	D	C	C	B	A	B	B	B	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A
Soybean Oil	-	B	B	C	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	A
Starch	C ₂₇ H ₄₈ O ₂₀	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Steam (212°F)	-	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	A
Stearic Acid	C ₁₈ H ₃₆ O ₂	B	C	C	C	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Styrene	C ₈ H ₈	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sugar Liquids	-	A	A	B	B	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sugar, Syrups & Jam	-	B	B	B	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sulfate Black Liquor	H ₂ O ₄ S	D	C	C	C	B	A	B	B	B	B	B	B	B	B	A	A	A	A	D	A	A	A	A	A	A	A	A
Sulfate Green Liquor	H ₂ O ₄ S	D	C	C	C	B	A	B	B	B	B	B	B	B	B	A	A	A	A	D	A	A	A	A	A	A	A	A
Sulfate White Liquor	H ₂ O ₄ S	D	C	C	C	B	B	B	B	B	B	B	B	B	B	A	A	A	A	D	A	A	A	A	A	A	A	A
Sulfur	S	C	C	C	C	B	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	A	A
Sulfur Chloride	SCl	D	D	D	D	D	C	D	B	D	C	D	D	D	D	C	A	C	A	C	D	A	B	A	A	A	A	A
Sulfur Dioxide (dry)	SO ₂	B	B	B	B	A	A	B	B	A	A	B	C	A	A	B	A	A	A	A	B	A	A	A	A	A	A	A
Sulfur Dioxide (wet)	SO ₂	B	D	A	A	B	C	B	A	A	A	D	D	D	D	B	B	A	A	A	B	A	B	A	A	A	A	A
Sulfur Hexafluoride	SF ₆	A	B	A	A	A	A	A	C	A	C	A	A	A	A	B	B	B	B	D	A	A	A	A	A	A	A	A
Sulfur, Molten	-	A	D	C	B	B	A	A	C	B	A	C	B	A	A	D	B	B	B	D	A	A	A	A	A	A	A	A
Sulfur Trioxide	SO ₃	A	D	B	B	B	A	A	A	A	A	A	A	A	A	D	B	B	C	D	A	D	A	D	A	A	A	A
Sulfur Trioxide (dry)	SO ₃	A	C	B	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	D	A	D	A	D	A	A	A	A
Sulfuric Acid 0 to 77%	H ₂ SO ₄	D	D	D	D	C	C	B	C	A	C	D	D	D	D	B	C	A	B	D	D	A	A	A	A	A	A	A
Sulfuric Acid 100%	H ₂ SO ₄	D	D	C	C	C	C	B	C	B	C	D	C	C	D	C	C	B	D	D	D	A	A	A	A	A	A	A
Sulfurous Acid	H ₂ O ₃ S	C	D	D	D	B	B	B	B	B	A	D	B	A	D	C	C	A	A	C	B	A	B	A	A	A	A	A
Tall Oil	-	C	B	B	B	A	A	A	A	A	A	A	A	A	A	B	D	A	A	A	A	A	A	A	A	A	A	A
Tannic Acid (Tannin)	C ₂₇ H ₂₄ O ₁₈	C	B	C	C	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	B	A	A	A	A	A	A
Tanning Liquors	C ₂₇ H ₂₄ O ₁₈	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	B	A	A	A	A	A	A	A	A
Tar & Tar Oils	C ₂ H ₄ O ₃	B	A	A	A	A	A	A	A	A	A	A	A	A	A	C	D	A	A	A	A	A	A	A	A	A	A	A
Tartaric Acid	C ₄ H ₆ O ₆	B	D	D	D	A	A	A	A	A	A	A	A	A	A	C	B	A	A	A	B	A	A	A	A	A	A	A

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No information

