



# CTG

# Chemical Resistance Guide

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Chemical Effect - Ratings A No effect— Excellent B Minor effect— Good C Moderate effect— Fair D Severe effect— Not recommended. <b>Explanation of footnotes:</b> 1 Satisfactory to 72°F (22°C). 2 Satisfactory to 120°F (49°C). 3 Satisfactory for O-rings.	Plastics														Elastomers						Metals & Ceramics																					
	Cycloac® (ABS)	Dellrim® (Acetal)	Carbon/Graphite	CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Tellon® TEF	Thermoplastic Polyester	Tygon	Butyl	EPDM	Hypalon®	Natural Rubber	Neoprene®	Buna-N (Nitrile)	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic						
Acetaldehyde	D	A1	A	D	A	B	-	D	-	A	D	D	A	A	C	-	A	-	D	A	A	C	C	C	D	A	D	B	-	A	C	A	A	A	A	A	A					
Acetamide	-	B	A	-	A	B	-	-	-	A	D	A1	D	A1	A	A	A	-	D	A	A	C	B	D	B	A	B	B	-	-	D	D	-	A	-	A	-	A				
Acetate Solvent	-	-	A	C	A	A	A	-	-	D	A	D	A	D	A1	A	-	A	-	D	A	A	C	C	D	C	D	A	A	C	D	D	A	A	A	A	A	A				
Acetic Acid Glacial	D	C	A	C	A2	B1	D	-	A	A	A1	A2	D	A2	A2	C	A	A1	D	B	B	C	B	D	C	B	D	A	A	C	D	A	A	A	A	A	A					
Acetic Acid 0.2	C	B	A	A	A	D	A	A	A	A	A	A	C	A	A	B	A	A	D	B	A	A	B	A	B	A	A	A	A	C	D	A	A	A	A	A	A	A				
Acetic Acid 0.8	D	C	A	C	A	C	D	B	A	A	A	A2	D	A	A2	B	A	A	D	B	A	C	B	C	B	B	A	A	A	C	D	A	A	A	A	A	A	A				
Acetic Acid	D	C	A	C	A	C	D	B	A	A	A	A1	D	A	A2	A	A	A	D	B	A	C	B	C	C	C	B	A	A	C	D	A	A	A	A	A	A	A				
Acetic Anhydride	D	D	A	D	A	A1	-	-	D	A	D	D	A	A	B1	D	D	A	-	D	B	B	A	B	A	D	C	D	A1	B	C	-	A	A	A	A	A	A				
Acetone	D	C	A	D	A	D	A	B	D	D	A	D	D	A	A	B1	D	A	A	C	D	A	B	C	C	D	B	D	A	A	A	A	A	A	A	A	A	A				
Acetyl Chloride (dry)	D	D	-	C	A	A	D	-	-	D	A	C	A2	-	-	D	-	A	-	D	D	D	D	D	D	C	A	A	B	-	-	A	A	-	-	-	-	-				
Acetylene	-	-	A	C	A	A	A	-	-	A	A1	A	A	A1	A	-	A	-	-	A	A	B	B	B	B	B	A	A	A	A	C	A	-	A	-	A	-	-	A			
Acrylonitrile	D	-	B	A	-	A	A	-	-	-	A1	A	D	A	A	D	A	-	-	D	D	C	D	C	D	D	D	B1	A1	-	A1	B	A1	-	A	-	A	-	A			
Alcohols:																																										
Amyl	-	A	A	A2	A	D	A1	-	-	C	A	A2	A	A	A	B2	C	A	-	B	A	A	B	A	B	D	B	B	A	A	-	A	A	B	A	B	A	A				
Benzyl	D	A	-	A	A	A1	B	-	-	D	A	D	A	A	A	D	D	A	-	B	B	B	D	B	D	-	B2	A	A	A	-	A	A	A1	A	A	A	A	A			
Butyl	-	A	-	A2	-	A	A	-	-	A	A	A2	A	C	A	A	C1	A	-	B	A	B	A	A	B	B	A	B	A	A	D	A	A	A	A	A	A	A	A			
Diacetone	-	A	A	-	-	A	A	-	-	A	-	B1	A1	A	A2	B1	-	A	-	-	A	A	D	D	D	D	D	A1	A	A	A	A	A	A	A	A	A	A	A	A		
Ethyl	B	B	-	A1	-	A2	A	A	A	-	A2	A	A	A	B	A	A	A	C	A	A	A	D	A	A	C	B	A	A	A	A	A	A	A	A	A	A	A	A	A		
Hexyl	-	A	-	-	-	A	A	-	-	A	-	A2	A	A	A	A	-	A	-	-	D	C	B	A	B	A	B	C	A	A	A	A	A	A	A	A	A	A	A	A		
Isobutyl	B	A	A	-	-	A	A1	-	-	A	-	A1	A	C	A2	A2	-	A2	-	-	A	A	A	A	B	A	A	B	A	A	C	A	A	A	A	A	A	A	A	A		
Isopropyl	-	A	A	A2	-	A	B1	-	-	A1	-	A1	A	A	A2	A2	A	A2	-	-	A	A	A	A	B	B	A	A	B	A	A	C	B	A	A	A	A	A	A	A		
Methyl	D	C	A	A1	A1	B1	A	A	A	A1	A	A1	A	A	A2	A1	B	A	B	-	A	A	A	A	A	A	C	A1	A	A	A	A	A	A	A	A	B	A	A	A		
Octyl	-	A	-	-	-	A	A	-	-	A	-	-	A	-	A	-	-	-	-	B	A	B	B	B	B	B	B	A	A	A	A	C	A	A	A	A	A	A	A	A		
Propyl	-	A	A	A2	-	A	B	-	-	A2	A	A1	A2	C	A	A2	-	A	-	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Aluminum Chloride 0.2	-	C	A	A1	A	A1	D	-	A	A	A	A1	A	D	A	B2	A1	A	-	B	A	A	A	A	A	B	A	D	C1	D	D	A	C1	B	A	A	A	A	A			
Aluminum Chloride	-	-	A	A2	A	A1	D	-	A	A	A	A2	A	-	A	B2	A1	A	-	B	A	A	A	A	A	B	A	A1	B1	D	D	A	C1	B	A	A	A	A	A			
Aluminum Fluoride	-	C	A	A2	-	B1	A1	-	-	A1	A	A2	A	-	A	A2	-	A	-	-	A	A	A	B	A	B	A	B1	C	-	-	B	C1	A	-	-	-	-	-			
Aluminum Hydroxide	-	B	A	A	A1	B1	A1	-	-	A	-	A2	A	D	A	A2	B	A	A	-	A	A	A2	D	A	A2	-	A	B1	A1	C	A	B	C1	B1	A	A	A	A	A		
Aluminum Potassium Sulfate 0.1	-	C	A	A2	A	A1	D	-	A	A2	-	A2	B	-	A	A2	-	A	-	B	A	A	A	A	A	A	A	C	A	-	D	C	B2	A	A	A	A	A	A			
Aluminum Potassium Sulfate	-	C	A	A2	A	A1	D	-	A	A2	-	A2	-	-	A	A2	-	A	-	B	A	A	A	A	A	A	A	C	B	-	D	C	B2	A	A	A	A	A	A			
Aluminum Sulfate	-	C	A	A2	A	A1	A2	-	A	A	A2	A	A	A	A2	-	A	-	B	A	A	A	D	B	B	A	B	A	B1	B	C	D	B	B1	A	A	A	A	A	A		
Amines	-	D	A	D	A	A1	D	-	-	D	B	D	D	D	-	C1	-	A2	-	-	A	B	D	B	B	D	B	D	B	B	D	D	C	A	B	A	A	A	A			
Ammonia 0.1	-	D	A	A	A	A1	B	-	A	A1	A1	B1	A	A	A	C1	B	A	-	B	A	A	D	D	A	A	-	D	A1	A1	D	A	A	A	A1	A	A	A	A	A	A	
Ammonia Anhydrous	-	D	A	A	A	A	A1	-	-	B1	A1	A2	A	A	A	B2	-	A	-	B	A	A	D	D	C	B	D	D	A1	A	D	A	B	A1	A	A	A	A	A	A	A	
Ammonia Liquids	-	D	A	A	A	A1	B1	-	-	A1	A2	A	A	A2	C1	-	A	-	B	A	A	D	D	A	C	-	D	C	B2	D	A	A	A	C	A	A	A	A	A	A	A	
Ammonium Bifluoride	-	D	A	A	-	A1	-	-	-	A	-	A2	A	A	A	A2	-	A	-	-	A	A2	-	-	A	A2	-	A	B	B	D	D	B	-	A	A	A	A	A	A	A	
Ammonium Carbonate	-	D	A	A	-	A1	A	-	-	A2	A	A2	A	D	A	B2	-	A	-	B	A	-	-	A	D	-	-	B	B	D	A	B	B	A	A	A	A	A	A	A	A	
Ammonium Casenite	-	D	-	-	-	A	-	-	-	A	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ammonium Chloride	-	B	A	A2	A	A1	C	-	A	A	A2	A	A	A2	A	A2	-	A	-	B	A	A	A	A	A	A	A	C	B	D	D	A	D	A	A	A	A	A	A	A	A	
Ammonium Hydroxide	B	C1	A	A	A	A1	A	A	A	A	A	A	A	A	A	B1	B	A	-	B	A	A	A	D	A	B	B2	A	A	A	B	A1	A	A	A	A	A	A	A	A	A	
Ammonium Nitrate	-	C	A	A2	A	A1	B	-	-	A	A2	A	D	A	A1	-	A	-	B	A	A	C	B	A	-	A	B1	A	D	A	B	A	A	A	A	A	A	A	A	A	A	
Ammonia Oxalate	-	B	-	-	-	A	-	-	-	A	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ammonium Persulfate	-	D	A	A	A	A1	C1	-	-	A1	-	A2	A1	C	A	A2	A	A1	-	-	A	A	A	A	D	-	A	D	B	D	D	B	B	A	A	A	A	A	A	A	A	A
Ammonium Phosphate, Dibasic	-	B	A	A	A	A1	C1	-	-	A	-	A2	A	A	A	A2	-	A2	-	-	A	A	A	A	A	A	A	B1	A1	C	C	B	B	A	A	A	A	A	A	A	A	A
Ammonium Phosphate, Monobasic	-	B	-	A	-	A	B	-	-	A	-	A	A	A	A	A	-	A	-	-	A	A	A	A	A	A	A	B	C	D	D	B	C	A	A	A	A	A	A	A	A	
Ammonium Phosphate, Tribasic	-	B	-	A	-	A	B	-	-	A	-	A	A	A	C	-	A	-	-	-	A	A	A	A	A	A	A	B	-	C	A	B	B	A	A	A	A	A	A	A	A	A
Ammonium Sulphate	-	-	A	A	A	A1	A1	-	-	A	A2	A	A	A	A1	-	A	-	-	-	A	A	A	A	A	A	A	A1	B	D	C	B	B	A	A	A	A	A	A	A	A	A
Ammonium Thio-Sulphate	-	B	-	-	-	A	-	-	-	-	-	-	A	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Amyl-Acetate	-	A	A	C1	A1	A1	A1	-	B	D	A	C1	A2	D	A	C1	-	A	-	D	A	A	D	D	D	D	D	A	A	C	C	A	A	A	A	A	A	A	A	A	A	A
Amyl-Alcohol	-	A	A	A2	A	D	A1	-	-	C	A2	A	A	A	A	B2	-	A	-	B	A	A	A	B	B	B	B	A	A	A	-	A	A	A	A	A	A	A	A	A	A	A
Amyl Chloride	-	A	A	C	A	A1	C1	-	-	D	-	D	A	-	C	D	D	A	-	C	D	D	D	D	B1	D	A	A1	A2	A	-	A1	A2	C	A	A	A	A	A	A	A	A
Aniline	D	A1	A	C1	A2	C1	C1	-	D	D	A	C1	A1	D	A	B2	B	A	-	D	B	B	D	D	D	D	D	C	A	A	C	C	B	B	A	A	A	A	A	A	A	
Anti-Freeze	B	D	-	A	-	A	D	A	A	-	A	A	A	A1	-	A	-	A	-	B	A	A	A																			













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Sodium Hypochlorite	-	D	C	C2	A	D	D	-	-	A	A	C2	A	D	B	B2	-	A	-	-	B	B	B	C	B	B	B	A	D	C	D	D	B	D	C	D		
Sodium Hyposulfate	-	-	-	-	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	C	-	-	-	D	-	D	-	-	-	-	-	-	
Sodium Metaphosphate	-	B	A	A1	-	A	A1	-	-	-	-	B2	-	A	A1	-	-	-	-	-	-	A	A	B	A	B	A	-	A	C	A	C	D	-	-	-	-	-
Sodium Metasilicate	-	D	-	A	-	A	-	-	-	-	-	A	-	-	A	-	-	-	-	-	-	A	A	-	A	A	-	A	D	A	B	-	-	-	-	-	-	
Sodium Nitrate	-	A	C	A	A	A	A1	-	-	A1	A	A2	A	A	A	A2	-	-	-	-	-	A	A	B	B	B	D	A	B	B	C	A	B	B1	A	A	-	
Sodium Perborate	-	B	C	A1	A	B	B1	-	-	A	-	A2	-	A	A	A2	-	-	-	-	-	A	A	B	B	B	B	A	C	B	D	C	B	B	A	-	-	
Sodium Peroxide	-	D	A	A2	A	C	A1	-	-	-	-	B2	A	D	B	A	-	-	-	-	-	A	A	B	B	B	B	D	A	C	A	D	C	B	A	-	-	
Sodium Polyphosphate	-	B	A	A1	A	A	A1	-	-	A1	-	A1	A	A	A	A	A	-	-	-	-	A	A	A	B	A	D	A	D	B	C	D	A	B	A	-	-	
Sodium Silicate	-	C	A	A2	A	A	A1	-	-	A1	-	A2	A	A	A	A2	B	A	-	-	-	A	A	A	A	A	-	A	D	B	B	A	A	B	A	-	-	
Sodium Sulfate	-	B	A	A2	A	A	A	-	-	A	A	A2	A	A	A	A2	-	-	-	-	-	A	A	A	B	A	A	A	A	B	C	A	B	B	A	-	-	
Sodium Sulfide	-	B	A	A2	A1	A	A1	-	-	A	A	A2	A	D	A	A2	-	-	-	-	-	A	A	A	B	A	A	A	A	D	B1	D	A	B1	B	A	-	-
Sodium Sulfite	-	A	A2	A	A	D	-	-	-	A	-	A2	A	A	A2	B1	-	-	-	-	-	A	A	A	B	A	A	A	C1	B	C	A	B	B	A	-	-	
Sodium Tetraborate	-	B	A	A	-	A	A	-	-	A	-	A2	-	-	-	A2	-	-	-	-	-	A	-	-	-	-	-	A	C	A	-	-	-	-	A2	-	-	
Sodium Thiosulfate (hypos)	-	C1	A	A2	A	A	B	-	-	A	A	A2	A	A	A2	A1	-	-	-	-	-	A	A	B	A	B	A	A	A	A2	D	C	A2	A2	A	-	-	
Sorghum	-	A	-	-	-	A	A	-	-	-	-	-	A	D	-	-	-	-	-	-	-	A	-	-	-	A	-	A	-	A	D	A	-	-	-	-	-	-
Soy Sauce	-	A	-	-	-	A	A	-	-	-	-	-	A	D	-	-	-	-	-	-	-	A	-	-	D	A	A	-	A	A	A	D	-	-	-	-	-	-
Stannic Chloride	-	C	A	A2	A	A	B1	-	-	A1	A	A2	A	-	A	A2	-	-	-	-	-	A	D	A	D	A	B	A	D	A	D	D	B	D	A	-	-	
Stannic Fluoborate	-	C	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Stannous Chloride	-	-	-	A2	A	A	C1	-	-	A2	A1	A1	A	-	A	B2	-	-	-	-	-	A	A	A	A	A	B	A	D	A1	D	-	B	A2	A	-	-	
Starch	-	A	A	A	A	A1	-	-	A2	-	A	A	A	A	A2	B	-	-	-	-	-	-	-	-	A	C	-	A	A	-	A	C	-	-	-	-	-	-
Stearic Acid	-	A	A	B2	-	B	A2	-	-	A	-	B2	A	D	A2	B1	-	-	-	-	-	-	B	B	B	B	B	A	-	B	B	C	C	B	A	-	-	
Stoddard Solvent	B	A	A	C1	A	A	B	-	-	D	A	C1	A	D	C	C2	-	-	-	-	-	-	D	D	D	D	B	A	D	A	A	A	A	A	A	-	-	
Styrene	-	A	A	D	-	A	A1	-	-	A	-	D	A	D	-	-	-	-	-	-	-	-	D	D	D	D	D	D	B	A	A	A	-	D	A	-	-	
Sugar (Liquids)	B	A	A	-	-	A	A1	-	-	A2	-	-	-	A	-	-	-	-	-	-	-	A	B	A	B	A	D	A	A	A	A	-	-	-	-	-	-	
Sulfate (Liquors)	-	D	A	B	-	A	B1	-	-	-	-	B	A	D	A	A2	A	-	-	-	-	B	B	B	B	B	D	D	A	D	B	D	B	B	-	-	-	
Sulfur Chloride	-	D	D	C1	A	C	A1	-	-	A	-	C1	A1	-	A1	C1	-	-	-	-	-	D	D	D	D	D	C	A	D	B	D	D	A	D	B	C		
Sulfur Dioxide	D	B	A	A2	A	A1	C1	-	-	A	A	A1	A	-	A1	B1	-	-	-	-	-	B	A	C	D	B	D	A	A	B	B	B	-	C	A1	A	-	
Sulfur Dioxide (Dry)	-	B	A	A2	A	A1	B1	-	-	A	A	A2	A	A	A1	A1	B	A	-	-	-	-	B	A	D	B	D	A	A	B	B	A	A	B	A	-	-	
Sulfur Trioxide (Dry)	-	D	D	A	-	A	A1	-	-	D	-	A1	D	-	D	C1	B	A	-	-	-	B	B	D	B	D	B	A	A	B	B	-	-	B	A	D	A	
Sulfuric Acid (<10%)	B	D	A1	A	A	A1	C1	A	A	A	A	A1	A	D	A1	A1	A	A	B	-	-	B	B	C	D	D	D	D	A	D	B	D	D	B1	D	D	D	
Sulfuric Acid (10-75%)	-	-	C1	C	A	C1	D	D	C	A	A1	D	A	D	C1	B1	C	A	-	-	-	B	B	D	D	D	D	D	A	D	B	D	D	B1	D	D	A	
Sulfuric Acid (75-100%)	-	-	D	D	A	D	D	D	D	D	D	D	A2	D	D	D	D	A	-	-	-	D	D	D	D	D	D	A	D	B	D	D	D	C	D	-	-	
Sulfuric Acid (Hot Conc)	-	-	D	D	A	D	D	D	D	A	A1	D	A	D	A2	C	B	A	-	-	-	B	B	B	D	D	D	D	A	B	B	D	D	A1	B	D	-	
Sulfuric Acid (Cold Conc)	-	-	D	D	A	D	D	D	D	A	A1	D	A	D	A2	C	B	A	-	-	-	B	B	B	D	D	D	D	A	B	B	D	D	A1	B	D	-	
Sulfurous Acid	-	C	A	A2	A	A	D	-	-	D	A	A2	A	-	A	B2	-	-	-	-	-	B	B	A	B	B	B	D	A	B1	B	D	D	B	B	A	-	
Sulfuryl Chloride	-	A	-	-	-	A	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tallow	-	A	A	-	-	A	A1	-	-	-	-	-	A	-	A2	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tannic Acid	-	B	A	A1	A	A	C1	-	-	A2	A	A1	A	-	A	B2	-	-	-	-	-	A	A	B	A	B	A	B	A	C	B	A	C	B1	A	A	-	
Tanning Liquors	-	B	A	A1	-	A	A1	-	-	A2	-	A1	A	C	A1	A1	-	-	-	-	-	A	B	-	-	-	A	A	-	A	A2	A	-	B	A2	A	-	
Tartaric Acid	-	B	A	A1	A2	A	B2	-	-	A1	A	A1	A	A	A	A1	A	A	-	-	-	-	B	B	A	A	B	A	A	A	B1	B1	A	C	B	C2	A1	A
Tetrachloroethane	-	A	A	C	A	A	A	-	-	D	-	C	A	-	C	-	D	A	-	-	-	D	-	-	-	-	-	-	C	-	-	-	-	-	-	-	-	
Tetrachlorethylene	-	A	A	D	A	-	A1	-	-	D	-	D	A	-	D	B	D	A	-	-	-	D	D	D	D	D	D	-	A	-	-	-	-	-	-	-	-	
Tetrahydrofuran	-	A	A	D	A1	A	B	-	-	D	D	A	D	D	-	C2	C1	D	A	-	-	B	B	D	D	D	D	-	D	-	A	D	-	-	-	-	-	
Toluene (Toluol)	D	C1	A	D	B2	B1	A1	A	D	D	A	D	A2	A	C1	C1	D	A	A	D	-	D	D	D	D	D	D	A	A	A	A	A	-	-	-	-	-	
Tomato Juice	B	B	A	-	-	A	A1	-	-	-	-	A	A	A	-	A	A1	A	-	-	-	A	A	-	-	-	-	-	A	A	C	-	-	-	-	-	-	
Trichloroethane	-	A	A	-	-	A	A1	-	-	D	-	C	A	D	C	-	C	A	-	-	-	D	D	D	D	D	D	A	C	A	A	A	A	A	A	-	-	
Trichlorethylene	D	B	A	D	A	C1	B1	A	C	D	A1	D	A	A	C1	C1	D	A	-	-	-	C	D	D	D	D	C	D	A	A1	B	A	C	B	B	A	-	
Trichloropropane	D	A	-	-	-	A	A	-	-	D	-	-	A	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tricresylphosphate	-	C	A	D	-	A	A2	-	-	-	-	D	D	-	A1	B1	-	-	-	-	-	A	A	D	D	D	C	B	D	A2	A	-	-	-	-	-	-	
Triethylamine	-	D	A	A	A	A	A1	-	-	B	-	A	A2	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Turpentine	-	A2	A	A	A	B	A1	-	-	A1	A	B1	A	-	B1	C1	C	A	-	-	-	D	D	D	D	D	A	D	A	A	C	-	-	B	A	B	A	
Urine	-	A	A	A	-	A	A1	-	-	A2	-	A	A	A	A	A2	-	-	-	-	-	A1	A1	-	-	-	D	A1	-	A1	B	A	C	A	-	-	-	-
Varnish	-	A	A	-	-	A	C1	-	-	A	D	-	D	A	A	A	C1	-	-	-	-	D	D	D	D	D	B	D	A	A	-	-	-	-	-	-	-	
Vegetable Juice	-	A	-	-	-	A	A	-	-	A	-	-	A	A	A	-	-	-	-	-	-	C	-	-	-	-	-	-	A	A	C	D	-	-	-	-	-	
Vinegar	B	B	A	A	A	A	C	-	-	A1	A	A2	A	-	A	B2	A	A	A	B	-	A	A	B	B	B	A	A	B	A	C	C	A	A	A	A	A	
Water, Acid, Mine	B	B1	A	A	A	A	B1	A	A	-	A	A2	A	-	A	A2	A	-	-	-	-	A	A	-	B	C	A	B	A	C	A	C	C	A	A	A	A	
Water, Distilled	A	C	A	A	A	A	A1	A	A	A	A																											