

耐化学腐蚀指引



普耐美流体系统有限公司

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INDEX 目录

内容	页码
免责声明.....	3
材料指引.....	4
化学品指引.....	5-22
化学分子式.....	23-35

普耐美流体系统有限公司免责声明

普耐美流体系统有限公司不对用本指引信息来根据化学品选择产品负责。

以下表格中的数据是从行业中繁多的资料中得到的，相信是可靠的，但是并不能保证。这些信息的主要目的是用来做为材料选择的一通用指引。最终用户应该知道真正的使用情况会影响抗化学性。建议你在选择是参考其他一到两种资料以确保一致性。

所有的数据是基于测试温度为 70 华氏度 (21 摄氏度)。

热塑性材料，金属和弹性体对大多数的化学试剂有超强的抵抗作用。然而此抵抗力对温度和浓度有关，有许多试剂只能在限定的温度和浓度范围操作。在边缘情况下，会发现有限的腐蚀，通常会因为吸收而导致膨胀。也有许多情况腐蚀会在特定的情况下发生，但是对于许多用途，当考虑使用替代材料时，从经济的角度，使用塑料是有道理的。这种抗腐蚀性经常会因为同时使用多种试剂或含有杂质而受影响（经常降低）。从这点来看，当特定的情况被考虑时，也许用真正的产品来做实验也是值得的。

A* 非常好的耐腐蚀性（没有影响）
B 好（轻微影响）
C 一般（数据不确定）建议测试
D 不推荐的
空白 无数据

* 数据是在 70 华氏度（21 摄氏度）及限制的浓度

温度影响：温度升高时，热塑性材料和弹性体的抗拉强度会降低，所以工作温度应该相应的降低。可以用以下参数：

注意：当你选择的阀体材料低于你系统的压力时，务必重新选择。标准阀门的顶部材料是 PVC，因该结合温度考虑。（其他结构的材料是有的，请参考价格单或咨询工厂）

注意：当考虑工作温度时，请将外界温和潜在的聚合性的表面温度（辐射热）结合考虑。

热塑性塑料温度校正参数

工作温度 参数（NR=不推荐）

F	C	PVC	CPVC	PP	PVDF
70	21	1	1	1	1
80	27	1	1	1	1
90	32	1	1	1	1
100	38	0.9	1	1	1
110	43	0.83	1	0.91	1
115	46	0.75	1	0.87	1
120	49	0.66	1	0.83	1
125	52	0.58	0.97	0.79	1
130	54	0.5	0.95	0.75	1
140	60	0.33	0.9	0.66	1
150	66	NR	0.8	0.6	0.97
160	71	NR	0.7	0.53	0.93
170	77	NR	0.6	0.43	0.86
180	82	NR	0.5	0.33	0.8
200	93	NR	0.33	NR	0.66
210	99	NR	NR	NR	0.6
240	116	NR	NR	NR	0.4
280	138	NR	NR	NR	0.16

例子：

工作外界温度，聚合性表面温度和立体情况：100° F[38° C]

选择阀门 TVPR50-PVC 设定为 75 PSIG

1/2" PVC 阀门公称压力为 230PSIG

（参考下面的表格）在 100° F 时的参数=0.90

230x0.90=207

阀门可以的最大压力为 207 PSIG

在 73° F[22° C]时，不同尺寸的阀门最大建议的设计压力：

阀门大小	PVC/CPVC	PP/PVDF
1/2"	230 PSIG	150 PSIG
3/4"	230	150
1"	230	150
1 1/2"	200	150
2"	200	150

热塑性塑料和弹性体

PVC [Polyvinyl Chloride] 聚氯乙烯
PVC 最高工作温度为 140° F [60° C]。

CPVC[Corzan™] [Chlorinated Polyvinyl Chloride] 氯化聚氯乙烯

CPVC 的机械性能和抗化学腐蚀性能和 PVC 形同。它适合用在温度为 200 ° F[95 ° C] 的情况下。
www.corzancpvc.com

PP [Polypropylene] 聚丙烯

在 73° F[22° C]时设计应力为 1000PSI，聚丙烯获得广泛的应用。对含硫化合物的抵抗性，对含盐水处理线，原油管道和低压收集系统特别有用。阀门适合使用温度到 195° F[90° C]。

PVDF [Kynar®] [Polyvinylidene Fluoride]
聚偏氟乙烯

PVDF 阀门的温度使用范围从-40° F 到 250° [-40° C - 120° C]

PC [POLYCARBONATE] 聚碳酸酯

不易破裂的材料，在 264PSI 下热偏转温度为 290° F[145° C]。

TEFLON® [碳氟化合物 缩写为 PTFE]

聚四氟乙烯

对几乎所有的化学物质和溶剂有超常的抗腐蚀性能。它是一种自润滑材料，额定温度范围-20° F - 400° F [-29° C - 204° C]。 www.dupont-dow.com

弹性体

VITON® [碳氟化合物橡胶 缩写为 FPM]
氟橡胶；

Viton 比 EPDM 贵许多，在极少数的情况下使用。它可以被腐蚀性【氢氧化钠】和低分子量的有机物腐蚀。有很广的温度范围-20° F - 300° F [-29° C - 149° C]，但是不适合在蒸汽环境使用。

EPDM [Ethylene Propylene Diene Monomer] 三元乙丙橡胶

这是一种用在几乎所有阀门的标准密封

的人造橡胶。它是最经济的弹性体选择，它不仅对酸，而且对碱，盐，酒精和氧化物都具有耐腐蚀性能。EPDM 不能用在石油行业。

NEOPRENE [Chloroprene Rubber 缩写 CR] 氯丁橡胶

这是一种使用于石油产品耐腐蚀比较经济的 O 型圈材料。温度范围-20°F - 160°F [-29°C - 71°C]。

NITRILE[Acrylonitrile-Butadiene Copolymer 缩写为 NBR] 丁腈橡胶

丁腈橡胶膜片和蝶阀座提供高耐磨性和抗化学腐蚀性。中等温度范围-20°F - 180°F [-29°C - 82°C]

HYPALON® [Chlorsulfonated Polyethylene 缩写为 CSM] 氯磺化聚乙烯-海普隆

海普隆用于蝶阀和隔膜阀需要替代 EPDM 密封。温度范围 -20°F - 200°F [-29°C - 93°C]。 www.dupont-dow.com

金属

316 不锈钢：对很广泛的环境有良好的抗腐蚀性能。

20 号合金：在硫酸环境中有超常的抗腐蚀能力。在有硫酸的很广场合使用：混合容器，热交换器，过程管道，酸洗设备，泵，阀门，螺栓和接头。

钛：钛对稀释的硫酸，盐酸，大部分有机酸，大部分含氯气体和含氯溶液有很强的抗腐蚀能力。

钛对于盐水和海洋环境不受影响，对大多数的腐蚀性气体，酸和碱具有超强的抗腐蚀能力。

HASTELLOY® C-276 哈氏合金：哈氏合金对几乎所有化学过程环境具有超强的抗腐蚀性能，包含强氧化剂如潮湿的氯，氯气，氧化铁。对硝酸，盐酸及硫酸在中等温度具有良好的抗腐蚀性能。参考 www.haynesintl.com

碳钢：对于应力腐蚀和硫化物具有良好的抗腐蚀性能。在高温和低温下有较高的强度。可以在 850°F [454°C] 以下的环境使用。

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Acetaldehyde	D	D	B	C	C	A	D	B	C	D	C	A	A	A	A	C
Acetaldehyde, Aqueous, 40%	D		A	D	D	A	B	A				A		A	A	
Acetamide	D		A	D	D	A	C	A	C	A	C	A	A		A	D
Acetate Solvents, Crude	D	D	D	A	D							A			B	
Acetate Solvents, Pure	D		D	A	D	A	D	C	D	D	D	A				D
Acetic Acid 05%			A	A	C	A	A	A	B	B	A	A		A	A	D
Acetic Acid 10%	A	A	A	A	C	A	D	B	B	B	B	A		B	A	D
Acetic Acid 20%	A	A	A	A	C	A	C	B	C	B	B	A	A	A	A	D
Acetic Acid 30%	A		A		C	A	C	A	B	B	B	A		A	A	D
Acetic Acid 50%	A	D	A	A	B	A	C	B	C	A	A	A	A	A	A	D
Acetic Acid 60%	A		B	A		A	C	C	C			A		A	A	
Acetic Acid 80%	B	D	C	A		A	C	B	C	C	A	A	A	A	A	D
Acetic Acid Glacial 100%	D	D	A	A		A	D	B	C	C	C	A	A	B	A	C
Acetic Aldehyde (Acetaledehyde)						A	D	A	B	D	A	B	B		A	D
Acetic Anhydride,		D	B	B	N	A	D	C	B	C	A	A	B	B	A	C
Acetic Ester (See Ethyl Acetate)						A	D	B	D	D	D					
Acetic Ether (See Ether Acetate)						A	D	B	D	D	D					
Acetol						A										
Acetone	D	D	A	D	D	A	D	A	C	C	B	A	A	A	A	A
Acetonitrile (MethylCyanide)	D		B	A		A	C	A	A	C	B	A	A	A	A	A
Acetophenone	D		A	A		A	D	A	D	C	D	A			B	A
Acetyl Acetone	D			D		A	D	A	D	D	D	A				D
Acetyl Benzene						A	D	A	D	D	D	A				
Acetyl Bromide				A		A	A					A				
Acetyl Chloride	D	D	A	A		A	C	D	D	C	D	A	A			A
Acetyl Oxide						A	D	B	B	C	D					
Acetyl Propane						A	D	B	D	D	D	A				
Acetylene	B	A	A	A		A	A	A	B	A	A	A	A		B	A
Acetylene Dichloride	D					A	A		D	D	D					
Acetylene Tetrachloride	D					A	A	D	D	D	D	D				
Acid Mine Water	A		B	A		A	A	C								
Acrylic Acid	C	D		A		A										
Acrylic Emulsions			D												A	
Acrylonitrile	D	D	A	A	D	A	D	D	C	C	C	A	A		B	A
Adipic Acid Aqueous	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A
Air	A		A	A	A	A	A	A	A	A	A	A				A
Alcohol (See Ethyl Alcohol)						A	B	A	A	A	A	A				A
Alcohol Amyl	C	B	A	A		A	A	A	B	A	A	A		A	A	
Alcohol, Allyl	D	D	A	A		A	B	A	A	A	A	A	A		A	A
Alcohol, Benzyl,	D		A	A		A	C	C	C	D		A		A	A	
Alcohol, Butyl	C	B	A	A		A	A	A	A	A	A	A		A	A	D
Alcohol, Diacetone,	D		C	B		A	D	A	C	C	A	A		A	A	
Alcohol, Ether						A	B	A	C	C	B					
Alcohol, Ethyl	A	A	A	A		A	B	A	A	A	A	A		A	A	A
Alcohol, Hexyl,	A		A			A	A	A	B	A		A		A	A	
Alcohol, Isobutyl				A		A	A	A	A	B		A		A	A	
Alcohol, Isopropyl,	A		A	B	A	A	A	A	B	B		A		A	A	A
Alcohol, Methyl	A	A	A	A	C	A	D	A	A	A	A	A		A	A	A
Alcohol, Octyl,							A		B	B		A		A	A	A
Alcohol, Polyvinyl	A		A			A	A	A								
Alcohol, Propargyl	A															
Alcohol, Propyl	A	A	A	A		A	A	A	A	A	A	A		A	A	C
Aldehyde						A	D	A	C	D	C					
Alkanes						A	A	D		A	D					
Alkazene						A	B	D	D	D	D					

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Allyl Aldehyde						A	A			B	B					
Allyl Bromide						A	B		D	D	D					A
Allyl Chloride	D	D	B	A		B	B	D	D	D	D	A		A	A	D
Allyl Trichloride						A	A			D	D					
Alum	A	A	A	A		A	A	A	A	A	A	A		A	A	C
Alum, Ammonium	D	D	A	A		A	A	A	B	A	A					
Alum, Chrome	A	A	A	A		A	A		A	A	A	A				
Alum, Potassium	A	A	A	A		A	A	A	A	A	A					
Aluminum, Acetate		B				A	C	A	C	B	C	A	A			D
Aluminum, Ammonium Sulfate			A	A		A	A	A	A	B		A	A			C
Aluminum, Bromide						A	A	A	A	A	A					
Aluminum, Chloride	A	A	A	A		A	A	A	A	A	A	C	A	C	A	B
Aluminum, Chlorohydroxide						A										
Aluminum, Citrate																
Aluminum, Fluoride	A	A	A	A			A	A	A	A	A	C	B	C	B	
Aluminum, Formate						A	D			D	D					
Aluminum, Hydroxide	A	A	A	A	D	A	C	A	A	A		A	A	A		C
Aluminum, Nitrate	A	A	A	A		A	B	A	A	A	A	A	A			C
Aluminum, Oxychloride	A		A	A			D									
Aluminum, Phosphate						A	A	A	A	A	A	A				
Aluminum, Potassium Sulfate	A		A	A		A	A	A	A	A	A	A	A			D
Aluminum, Salts	A		A	A	A	A	A	A	A	A	A	D				
Aluminum, Sulfate	A	A	A	A		A	A	A	A	A	A	B		A	A	C
Amber Acid	A		A	A		A	A	A								
Amines	C	D		B		A	D	C	C	D	D	A		B	A	
Ammonia 10%	A	D	A			A	A		A	D		A		A	A	
Ammonia, Anhydrous 99.5%	D		A	B		A	D	A	A	C	A	A		B	A	A
Ammonia, Aqueous 25%	A	A	A	A						C		A				A
Ammonia, Dry Gas	A		A			A	D	A	A	A	A	A	A	A	A	A
Ammonia, Liquid	D		A	A		A	D	A	A	B	A	A	A		A	A
Ammonia, Nitrate	B		A	A		A	A	A	C	B		A				A
Ammonium Phosphate, Monobas	A	A	A	A		A	A	A	A	A		A		A	A	
Ammonium Phosphate, Tribasic	A		A			A	A	A	A	A		A		A	A	
Ammonium, Acetate	A	A	A			A	A	A	A	A	A	A	B			C
Ammonium, Alum						A			B	B						
Ammonium, Bichromate						A		A	A	A	A					
Ammonium, Bifluoride	A	A	A	A		A	A	A	D	B		A	B		B	D
Ammonium, Bisulfide	A			A		A					A					
Ammonium, Carbonate	A	A	A	A		A	A	A	A	C	A	B	B	A	B	A
Ammonium, Casenite									A			A				
Ammonium, Chloride	A	A	A	A		A	A	A	A	B	A	B	B	A	B	C
Ammonium, Dichromate	A	A				A		A	A	A	A	A				A
Ammonium, Fluoride		A		A		A	C	A	B	B	A	C				C
Ammonium, Fluoride 10%	A		A	A		A	A	A	A	A	A	C		B	A	
Ammonium, Fluoride 20%	A		A	A		A	A	A								
Ammonium, Fluoride 25%	D		A	A		A		A				C				C
Ammonium, Hydroxide	A	C	A	A	D	A	B	A	A	A	A	A		A	A	C
Ammonium, Metaphosphate	A		A	A		A	A	A	B	A	B					
Ammonium, Nitrate	B	A	A	A		A	A	A	A	A	A	A	A		A	D
Ammonium, Oxalate	A		A		A	A			A	A		A			A	D
Ammonium, Persulfate	A	A	C	A		A	C	B	A	C	A	A	A	A	A	D
Ammonium, Phosphate	A	A	A	A		A	A	A	A	A	A	C				D
Ammonium, Phosphate Di Basic	A		A	A		A	A	A	A	A		A		A	A	D
Ammonium, Phosphate Monobasic	C		A	A		A	A	A	A	A	A	C	A	A	A	D
Ammonium, Phosphate Tribasic	C		A	A		A	A	A	A	A		A		A	A	D
Ammonium, Salts	A		A	A	C	A	C	A	A	A	A	D				

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Ammonium, Sulfate	A	A	A	A		A	C	A	A	A	A	B	A	A	A	D
Ammonium, Sulfide	A	A	A	A		A	C	A	A	A		B				C
Ammonium, Thiocyanate	A	A	A			A	A	A	A	A	A	A	A		A	C
Ammonium, Thiosulfate						A	A	A	A	A	A	A		A		D
Amyl Acetate	D	D	D	C	D	A	D	A	D	C	D	A		D	A	C
Amyl Alcohol (See Alcohol Amyl)	C	C	A			A	A	A	A	A	A	A	A	C	C	B
Amyl Borate				A		A	A	D	A	A	A					
Amyl Bromide						A	B	D	D	D	D					
Amyl Chloride	D	D	D	A	D	A	A	D	D	D	C	B	A	C	A	A
Aniline	D	D	A	C	C	A	B	A	D	D	A	A	A	B	C	C
Aniline Chlorohydrate	D														A	
Aniline Hydrochloride	D	D	D	A		A	B	B	D	C	C	D		A	D	C
Anthraquinone Sulfonic Acid	A			A	A		A									
Antichlor						A	A	A	A	A	A					
Anti-Freeze	A		A			A	A	A	A	A		A			A	A
Antimony Chloride			A	A		A	A		D	D						
Antimony Pentachloride						A			D	D	D					
Antimony Trichloride	A	A	A	A		A	A	A	A	A	A	D	A			C
Aqua Regia 80% HCL, 20% Nitric	D	C	C	A		A	C	C	C	C	B	D	B	B	C	D
Argon						A	A	A	D	C	D	A				A
Arochlor 1248						A	A	C	D	D		C				C
Aromatic Hydrocarbons	D						A	D	D	D		A				C
Arsenic Acid	A	A	A	A		A	A	A	A	A	A	B	A		A	D
Arsenous Acid	C			A		A		A		C		A				D
Aryl Supfonic Acid	D		D	C						A						
Asphalt	C		A	A		A	A	D	C	B	C	A	A		A	A
Aviation Fuel(115-145 OCT)						A	A	D		C		A				A
Aviation Turbine Fuel						A										
Baking Soda (See Sodium Bicarbonate)						A	A	A	A	A	A				A	
Barium Acetate																
Barium Carbonate	A	A	A	A		A	A	A	A	A	A	B	A	A	A	B
Barium Chloride	A	A	A	A		A	A	A	A	A	A	B	A	A	A	C
Barium Cyanide	D					A	A		A	A		A				C
Barium Hydrate						A	A	A	A	A	A	A				
Barium Hydroxide	A	A	A	A		A	A	A	A	A	A	A	A	B	B	C
Barium Nitrate	A	A	A			A	A	A	A	A	A	A	A	A		A
Barium Salts	A		A	A		A	A	A	A	A	A	A				
Barium Sulfate	A	A	A	A		A	A	A	A	A	A	A	A	A	A	C
Barium Sulfide	A	A	A	A		A	A	A	A	A	A	A	A			C
Beer	A	A	A	A		A	A	A	A	C	A	A	A	A	A	C
Beet Sugar Liquid	A		A			A	A	A	A	A	A	A				A
Beet Sugar Liquors	A	A	A	A		A	A	A	A	A	A	A	A			B
Benzaldehyde	D	D	C	C	D	A	C	A	D	D	C	A	A	A	A	A
Benzalkonium Chloride	A															
Benzene [Benzol]	D	D	C	B	D	A	B	D	C	C	D	A	A	A	B	A
Benzene Sulfonic Acid	D	A	B	B		A	A	D	A	C	A	A	A			C
Benzene Sulfonic Acid 10%	D		D	B		A	A									
Benzil Chloride	B	D	A	A		A	A	D	D	D	D					
Benzoic Acid	A		A	A	C	A	A	B	C	D	A	B	A	A	A	D
Benzol (See Benzene)																
Benzyl Alcohol (See Alcohol Benzyl)		D				A	A	C	D	C	C	A	A			B
Benzyl Benzoate						A	A	C	D	D	D	C			B	C
Benzyl Chloride		D	A	D		A	D	D	D	D	D	C				A
Bismuth Carbonate	A	A	A	A		A	A	A	A	A	A					
Black Liquor	A	A	A	A		A	A	B	A	A	A	A	A			A
Bleach (See Sodium Hypochlorite)	A	A	A	A		A	A	A	D	D	A				A	

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Borax	A	A	A	A		A	A	A	A	A	A	A	A	A	A	C
Boric Acid	A	A	A	A		A	A	A	A	A	A	B	A	A	A	D
Brake Fluid						A	D	A	B	C	B	A	A		A	A
Brewery Slop						A	A		A	A		A				A
Brine	A	A	A	A		A	A	A	A	A	A	A	A		A	C
Brine Acid	A	A	A	A		A	A	A		A					A	
Bromic Acid	A		D	A		A	A	B							A	
Bromine Dry						A	A	D	D	D	D	D				D
Bromine Gas	C		D	A		A	A	D	C	D	A	C	A		A	C
Bromine Liquid	D	D	D	A		A	A	D	D	D	A	D	C		A	D
Bromine Water	D	D	D	A		A	A	D	C	C	A	D		A	A	D
Bromobenzene	D	D	D		D	A	A	D	D	C	D	A				C
Bromotoluene	D	D	D			A	C	C	C	D	C	A				A
Butadiene Gas	B	A	D	A	D	A	A	D	D	D	B	A	A		A	A
Butane	A	A	A	A		A	A	D	A	A	A	A	A		B	A
Butanediol (Butylene Glycol)	A			A			A	D								
Butanol (See Alcohol, Butyl)	C	C	A		C	A	A	A	A	A	A	A	A		A	A
Butter						A	A	A	B	A	B	A				D
Buttermilk						A	A	A	A	A		A				D
Butyl Acetate	D	D	C	B	D	A	D	B	D	C	C	C			B	A
Butyl Acrylate Pure	D		D	A		A	D	A								
Butyl Acrylate Saturated	C		C	A	A	A	D	A	D	A		A				C
Butyl Amine	D		D	B		A	D	D	D	D	C					
Butyl Benzoate						A	A	A	D	D	D					
Butyl Bromide				A		A	B			D	D					
Butyl Butyrate (Butyl Butanoate)						A	C	A	D	D	D					
Butyl Carbitol		D				A	A	A	B	C	A					
Butyl Cellosolve (Ethylene Glycol Monobutyl Ether)	A	D		A		A	D	B	C	C	B	A	A			
Butyl Chloride (Chlorobutane)				A		A	A	C	C	D	C	B	B		B	B
Butyl Diol	B	A	A	A		A	A	A								
Butyl Ether	D		D	A		A	D	D	C	B	C					
Butyl Formate						A			D	D						
Butyl Hydrate						A	A	B	A	A	A					
Butyl Hydride (See Butane)						A	A	D	A	A	B					
Butyl Hydroxide						A	A	B	A	A	A					
Butyl Mercaptan	D			A		A						A				
Butyl Phenol	C		A	A					C		B					
Butyl Phthalate [Dibutyl Phthalate]	D		A	A		A	C	B		D	D					
Butyl Stearate				A		A	A	B	A	B	D	A	A			C
Butylbenzene (Phenylbutane)						A	A			D	D					
Butylene (Liquified Petroleum Gas)	A		D	A		A	A	D	C	B	C	A				A
Butyraldehyde						A	D	B	D	D	C				A	
Butyric Acid	D	D	A	A	D	A	B	B	C	D	C	B	A	A	A	D
Cadmium Cyanide	A						A		A							
Cadmium Salts			A	A		A	A									
Caffeine Citrate	A			A		A										
Calamine						A	A		B	B	A					
Calcium Acetate	A		A	A		A	D	A	C	B	B	C				C
Calcium Bisulfide	A	A	A	A		A	A	D	A	A	C	B	A	A	A	
Calcium Bisulfite	A	A	A	A		A	A	D	A	A	A	A				D
Calcium Carbonate	A	A	A	A		A	A	A	A	A	A	A	A	A	A	C
Calcium Chlorate	A	A	A	A		A	A	A	A	A	A	A	A		B	C
Calcium Chloride	A	A	A	A		A	A	A	A	A	A	B	A	A	A	C
Calcium Cyanide						A		A	A	A	A					A
Calcium Hydroxide	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Calcium Hypochlorite						A	A	A	D	D	A					
Calcium Hypochlorite	A	A	A	A	D	A	A	A	C	C	A	B	B	B	B	D
Calcium Nitrate	A	A	A	A		A	A	A	A	B	A	A	A			D
Calcium Oxide	A	A		A		A		A	A	A	A	A	A			A
Calcium Phosphate						A	A	A	C	A	A	B				C
Calcium Sulfate	A	A	A	A		A	A	A	A	A	A	A	A	A	B	B
Calcium Sulfide	A		A	A		A	A	A	A	A	A	A				C
Calcium Thiosulfate						A	A		A	B	A					
Calgon (Sodium Hexametaphosphate)			C	A		A	A	A	A	A		A				
Cane Sugar Liquors	A	A	A	A		A	A	A	A	A	A	A			A	A
Caprylic Acid (Octanic Acid)				A		A				C	B	A	A		A	A
Carbinol (See Alcohol, Methyl)						A	D	A	A	A	A	A		B	A	
Carbolic Acid (See Phenol)				A		A	A	C	D	C	D	A		B	A	D
Carbon Bisulfide	D		D	A		A	A	D	D	D	D	B			A	A
Carbon Dioxide (Wet or Dry)	A		A	A		A	A	B	A	A	A	A	A	A	A	A
Carbon Disulfide	D	D	D	A	D	A	A	D	D	C	D	A	A		A	A
Carbon Monoxide	A	A	A	A		A	A	A	A	A	A	A	A		A	A
Carbon Tetrachloride	D	D	C	A	C	A	B	D	D	C	C	A	A	A	A	B
Carbonic Acid	A	A	A	A		A	A	A	A	B	A	B	A		A	D
Casein				A		A	A	A	A	A	A	B				
Castor Oil	A	C	A	A		A	A	A	A	A	A	A	A		A	A
Catsup	A		A			A	A	A	C	A		A			A	D
Caustic Lime (Calcium Hydroxide)						A	B	A	A	A	A	A			A	
Caustic Potash (Potassium Hydroxide)	A	A	A	A		A	D	A	B	A	A					
Caustic Soda (Sodium Hydroxide)	A	A	A	A		A	B	A	B	C	A					
Cellosolve (See Butyl Cellosolve)	B	D	B	A		A	C	B	D	C	A	A	A			A
Chloral Hydrate (Knockout Drops)	A	A	A	A			A		B	C	A	C				
Chlorasetic Acid	A		D			A	D	B	D	D		D		A	A	D
Chloric Acid 10%	A	A	D	A		A			D	D	A	D				D
Chloric Acid 20%	A		D	A		A						D	A		A	C
Chlorinated Glue							A	B	D	C		A				D
Chlorine Dioxide	A		C	A		A	A	D	D	D		D				D
Chlorine Dry	D	D	C	A	C	A	C	B	C	D	C	B		D	A	D
Chlorine Gas Dry	D	D	D	A		A	B	D	C	C	C	B	A		A	D
Chlorine Gas Wet	D	D	D	A		A	C	D	D	C	D	D	C		A	D
Chlorine Liquid	D	D	D	A		C		C	C	C	B	C			A	C
Chlorine Water	A	A	C	A		A	A	B	C	C	B	D	A	A	A	C
Chlorosulfonic Acid	D	B	D	C		A	D	D	D	D	C	D	B	A	A	C
Chlorox Bleach 5.5%	A		C	A		A	A	B	D	C	B	A		D	A	D
Chocolate Syrup			A			A	A	A	A	A		A			B	D
Chresylic Acid 50%	A			B			A		D	D		A			B	
Chrome Alum (Chr. Potass. Sulf.)	A	A	A	A		A	A	A	A	A		A				D
Chromic Acid 05%	A		A	A	C	A	A	A	D	D		A		A	A	D
Chromic Acid 10%	A	D	A	A		A	A	B	D	D	A	A	A	A	A	C
Chromic Acid 20%	B		D	A		A	B	B	C	C	A	B		A	A	
Chromic Acid 30%	B	D	A	A		A	A	C	D	D	A	B	A	A	A	C
Chromic Acid 50%	D	D	B	A	C	A	A	C	D	D	A	B	B	A	B	D
Chromium Alum	A		A	A		A	A	A	A	A		A				D
Citric Acid	A	A	A	A	A	A	A	A	A	B	A	A		A	A	D
Citric Oils		D	A			A	A	B	D	A	D	A				D
Cobalt Chloride						A	A	A	A	A	A					
Coconut Oil	A	C	A	A		A	A	B	B	A	B	A	A			B
Cod Liver Oil						A	A	A	B	B	B	A				
Coffee			A			A	A	A	A	A	A	A	A			C
Coke Oven Gas	D		A	A		A	A	A	D	D		A				B
Cola Concentrates			A													

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Copper Acetate	A	A	A	A		A	D	A	B	B	C	A	A		A	C
Copper Borofluoride	A		A	A		A	A	A								
Copper Carbonate	A	A	A	A		A	A	A		D		A	A			
Copper Chloride	A	A	A	A		A	A	A	A	A	A	C	A	A	A	D
Copper Cyanide	A	A	A	A		A	A	A	A	A	A	A	A	B	A	D
Copper Fluoborate	A					A	A		A	B		D			A	D
Copper Fluoride	A	A	A	A		A	A	A	A	B	A					
Copper Nitrate	A	A	A	A		A	A	A	A	A	A	A	A	A	A	D
Copper Salts	A		A	A		A	A	A	A	A	A					
Copper Sulfate	A	A	A	A		A	B	A	A	A	A	A	A	A	A	D
Copper Sulfate 5%	A		A			A	A		A	A		A		A	A	D
Corn Oil	A	D	A			A	A	B	C	A	C	A	A			A
Corn Syrup	A	A	A	A		A	A	B	A	A	A					
Cottonseed Oil	A	D	A	A		A	A	B	C	A	A	A	A			A
Cream	A	A	A			A	A		B	A		A				D
Creosol	D	D	D	A	D	A	A	D	D	D	B	A				A
Creosote	D	D				A	A	D	D	B	A	A	A		A	A
Cresols	D	D	C	A		A	A	D	D	D	C	A				A
Cresylic Acid	C	B	D	A		A	A	D	D	D	C	A	A	A	B	B
Croton Aldehyde	D	D	A	C		A	A	B	A	D		A				A
Crude Oil	A	A	A	A		A	A	D	D	D		A	A			B
Cryolite	B		A	A		A	A	A	A	B						
Cupric Cyanide (See Copper Cyanide)																
Cupric Fluoride	A		A	A		A	A	A								
Cupric Nitrate						A	A	A	A	A	A					
Cupric Salts	A		A	A		A	A	A	D			D				
Cupric Sulfate (See Copper Sulfate)	A	A	A	A		A	A	A		A						
Cutting Oil						A	A	D	B	A	B	A				B
Cyanic Acid (Isocyanic Acid)						A		A	A	A	A	A				
Cyclohexane	D	D	C	A	C	A	A	D	D	C	C	A	A	A	A	A
Cyclohexanol	D	D	A	A		A	A	B	C	B	C	A	A			C
Cyclohexanone	D	D	C	C		A	D	C	D	C	C	A	A		A	C
Decalin	D		B	A	D	A	A	D	D	D	D					
Decanal						A	D	D		D	D					
Decane				A		A	A	D	D	B	C					
Detergents	A	C	A	A		A	A	A	A	A		A				
Detergents, Heavy Duty	A		A	A		A		A	A	A	A	A	A			A
Developers						A	A	C	A	A		C		A	A	D
Dextrin	A	A	A	A		A	A	A	A	A		A	A			B
Dextrose	A	A	A	A		A	A	A	A	A	A	A	A			D
Diacetone Alcohol	D	D	A	B		A	D	A	C	D	B	A	A		A	A
Diallyl Phthalate																
Diazo Salts	A	A	A	A												
Dibenzyl Ether				A		A	D	C	D	D		A				A
Dibutyl Amine				A		A	C	D	D	C						A
Dibutyl Ether				A		A	C	C	D	C	C	A				A
Dibutyl Phthalate [see Butyl Phthalate]	D	D	A	A		A	B	A	D	D	D	A	A			A
Dibutyl Sebacate	B			A		A	C	B	D	D	D	A				A
Dicalcium Phosphate																
Dichlorethane	D			C		A	C		D			A			A	A
Dichloro Benzene	D	D		C		A	B	D	C	D	C	A	A			
Dichlorobenzene	D	D		A		A	A	D	D	D	D					
Dichloroethylene [acetylene dichloride]	D	D	A	A		A	A	D	D	D	D	B				
Dichloroisopropyl Ether				A			D	D	D	D						
Dichloromethane						A	B	D	D	D	D					
Diemethyl Phthalate																

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Diesel Fuel [gas oil]	A	A	B	A		A	A	D	D	A	D	A	A			A
Diethanolamine							D	C	D	D		A				A
Diethyl Cellosolve				A				D	A	C		A	A			
Diethyl Ether [ethers]	D	D	D	A	D	A	C	C	D	D	C	A				A
Diethyl Ketone [acetone]						A	D	B	D	D	D					
Diethyl Oxide						A	D	D	C	B	C					
Diethylamine	D	D	A	C		A	D	B		B	C	A				A
Diethylbenzene	D		D		D	A	A	D	D	D	D	A				
Diethylene Glycol [carbitol]	A	A	A	A	B	A	A	C	A	A		A		A		
Diethylenetriamine				A		A		C	D	B	C					
Diglycolic Acid	A	A	A	A		A	A	A			A	A				
Diisobutyl Ketone				A		A	D	D	D	D		A				A
Diisobutylene				A		A	A	D	D	C	A	A				C
Diisooctyl Phthalate						A	B	B		D	D					
Diisopropyl Ketone				B		A	D	B		D		A				A
Dimethyl Amine	D	D	A	B		A	D	C	C	B	C	A	A			
Dimethyl Benzene						A	A	D	D	D	D					
Dimethyl Ether						A	B	B	C	B	C					
Dimethyl Formamide	D	D	A	A		A	C	B	C	B	A	A	A			B
Dimethyl Ketone						A	D	A	C	D	C					
Dimethyl Phthalate	D	D	D	B		A	B	B	D	D	D	A				
Dimethylamine	D	D	A	D			D	D								
Dioctyl Phthalate	D	D	D	A		A	A	A	D	D	D	A				A
Dioxane	D	D	B	D		A	D	B	D	D	D	A		A	A	A
Dioxolane				D			D	D	D	D						
Diphenyl			D			A	A	D	D	D	D	C				C
Diphenyl Ether (See Diphenyl Oxide)																
Diphenyl Oxide	D	B		B			A	D	D	D		A				A
Dipropylene Glycol	B		A	B		A	A	C		A	A	A				
Disodium Methylarsonate																
Disodium Phosphate	A	A	A	A		A		A		A	A	A	A			
Distilled Water	A	A	A	A												
Divinylbenzene	D		D	D		A	A			D						
Dolomite						A	A	B	A	A	A					
Dowtherm (Ethylene Glycol)									D			A				B
Dry Cleaning Solvents						A	A	D	D	A	D	A		A		A
Epichlorohydrin	D	D	A	A		A	D	D	D	D		A		A		C
Epsom Salts [magnesium sulfate]	A		A	A		A	A	A	A	A	A	A		A	B	A
Esters	D	D	C	A		A										
Ethane	D	D	C			A	A	D	C	A	B	A		A		A
Ethanol (See Alcohol, Ethyl)																
Ethanolamine	D		A	D		A	D	A	D	B		A				A
Ethers	D	D	D	A	D	A	C	C	D	D	D	A	A		B	B
Ethyl Acetate	D	D	A	A	D	A	D	B	D	D	D	A	A		A	A
Ethyl Acetoacetate	D	D	D	A		A	D	A	D	D						A
Ethyl Acrylate	D	D	D	A		A	D	B	D	D	D	A	A		A	A
Ethyl Alcohol	A	C	A	A	C	A	B	A	A	A	A	A	A	A	A	A
Ethyl Benzene	D	D	D	A	D	A	A	D	D	D	D	A	A		A	B
Ethyl Bromide		D	D				A	D	D	C		A				A
Ethyl Butyrate	D		B		D	A	D	D	D	D		A				A
Ethyl Cellosolve							D	A	D	D						
Ethyl Chloride	D	D	D	A	D	A	A	A	C	B	A	A	A	A	A	A
Ethyl Ether	D	D	C	A		A	C	D	D	D	C	A				A
Ethyl Formate	D	D	D	A		A	B	B	B	D	C	A	A			A
Ethyl Hexanol				A		A	A	A	B	B	A	A				A
Ethyl Sulfate						A	D		A	C	D	D				C

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Ethylcellulose									A		A					
Ethylene Bromide	D	D	B	A		A	B	C	D	D	D	A	A	B	A	A
Ethylene Chloride	D	D	C	A	D	A	A	C	D	D	C	A	A	B	B	D
Ethylene Chlorohydrin	D	D	A	A		A	A	A	A	D	A	C				C
Ethylene Diamine	D	D	A	C		A	D	A	A	A	B	A	B			A
Ethylene Dichloride	D	D	D	A		A	A	D	D	D	C	A	A	A	B	
Ethylene Glycol	A	C	A	A	C	A	A	A	A	A		A	A		A	A
Ethylene Oxide	D	D	C	A	D	A	D	D	D	D	D	A	A		A	A
Extrin	A		A	A		A	A	A								
Fatty Acids	A	A	A	A		A	A	D	B	B	C	A	A	A	A	D
Ferric Acetate (Iron Acetate, Basic)	B					A	D			D	A					
Ferric Chloride, Anhydrous	A	A	A	A		A	A	A	B	B	B	D		A	B	D
Ferric Hydroxide	A	A	A			A	C	A	A	A	A	A	A			
Ferric Nitrate	A	A	A	A		A	A	A	A	A	A	A	A	A	A	D
Ferric Sulfate	A	A	A	A		A	A	A	A	A	A	B	A	A	A	D
Ferrous Chloride	A	A	A	A		A	A	A	A	A	B	D	C	A	B	D
Ferrous Nitrate	A		A	A		A	A	B	A	A	A	A	A			
Ferrous Sulfate	A	A	A	A		A	A	A	A	A	A	A	A	A	A	D
Fish Solubles	A	A	B	A												
Fluoboric Acid (Fluoro Boric Acid)	A	A	A	A		A	A	A	A	A	A	B	A	D	A	A
Fluorine Gas (Wet)	A	D	D	A		A	A	A	D	D	D	A	A			C
Fluorine, Liquid	C		D	A		B	B	C	D	D	D	D		D	A	
Fluosilicic Acid [hydrofluosilicic Acid]	A	A	A	A		A	A	A	A	A	A	B	A	D	B	D
Formaldehyde	D	D	A	A	A	A	B	B	A	B	A	A	A	A	B	A
Formaldehyde 35%	A		A	A		A	A	A	A	C	A	A	A		A	B
Formaldehyde 50%	A		A	A		A	B	D	A	C	C	A	A		A	B
Formic Acid	A	A	A	A	C	A	D	A	A	C	A	B	A	C	A	D
Freon 11 (MF)	D	C	A	A		A	B	D	D	B	A	A	A			B
Freon 113 (TF)	A	C		A		A	B	D	A	A	A	A	A			B
Freon 114	A	C		A		A	A	C	A	A	A	A	A			B
Freon 12	C	C	B	A		A	B	A	A	B	A	A	A			A
Freon 12 (Wet)	B	C	A			A	A	B	B	A		D				
Freon 22	D	C	A	A		A	D	B	A	D	A	A	A		A	A
Freon TF	B	C	D			A	B	D	A	A		A				A
Fructose	A	A	A	A		A	A	A	A	A	A	A	A			
Fruit Juice	A	A	A	A		A	A	A	A	A	A	A				D
Fruit Pulp	A		A	A			A									
Fuel Oil	B		B	A	C	A	A	D	B	A	A	A		A	A	A
Fumaric Acid (Boletic Acid)						A	A		B	A	B					A
Furan						A	D	D	D	D						
Furfural (Ant Oil)(Bran Oil)	D	D	D	B		A	D	C	D	D	A	A	A		A	A
Furfuryl Alcohol				B		A	D	C	D	D		A				A
Gallic Acid	A	A	A	A		A	A	A	A	A	A	A	A		A	D
Gas Natural	A	A	A	A			A	D		A		A				B
Gasoline, Leaded	A	A	D	A		A	B	D	B	A	A	A	A	D	A	A
Gasoline, Sour	A		D	A	C	A	A	D	C	A	D	A	A	D	A	A
Gasoline, Unleaded	C	D	D	A		A	B	D	B	A	A	A	A	D	A	A
Gelatin	A	A	A	A		A	A	A	A	A	A	A	A		A	D
Gin	A		A	A		A	A	A				A				
Gluconic Acid 50%																
Glucose	A	A	A	A	A	A	A	A	A	A	A	A	A		A	A
Glue	A	A	A	A		A	A	B	A	A	A	A	A	A	A	A
Glycerin (See Glycerol)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glycerol (Glycyl Alcohol)	A		A	A		A	A	A	A	A	A	A			A	
Glycolic Acid (See Hydroxyacetic Acid)	A	A	A	A		A	A	A	A	A	C	A	A		B	C
Glycols	A	A	A	A		A	A	A	A	A		B				B

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Glyoxal							A		A	C	C	A	A			C
Gold Monocyanide				A		D	A		A	A		A				D
Grape Juice	A			A		A	A		A	A		A				D
Grape Sugar	A		A	A		A	A	A	A	A	A					
Grease	A		A	A		A	A	D	B	A	C	A	A		A	A
Green Liquor	A	A	A	A		A	A	A	B	B	A	A	A			D
Helium			A			A	A	A	A	A	A	D				D
Heptane	A	C	B	A		A	A	D	B	A	A	A	A		A	A
Hexane	D	A	B	A	D	A	A	D	B	A	A	A	A		A	A
Hexene						A	A	D	B	A	C					
Hexyl Alcohol (Hexanol)	A		A	A		A	A	B	B	A	A		A		A	A
Honey	A		A	A		A	A		A	A		A				A
Hydraulic Oil	A		D	A		A	A	D	B	A	A	A	A			A
Hydraulic Oil (Synthetic)	A		D	A		A	A	A	C	C		A				A
Hydrazine	D	D	D	A		A	D	A	C	C	A	A	A			D
Hydrobromic Acid	A		A	A		A	A	A	D	D		D		A	A	D
Hydrobromic Acid 20%	A		A	A		A	A	A	C	D		D	C	A	A	C
Hydrobromic Acid 50%	A		B	A		A	A	A	B	D	A	C	C	D	B	C
Hydrochloric Acid (Dry Gas)	A		A	A	C	A	A	A	C	D		D			A	D
Hydrochloric Acid 10%	A		A	A		A	A	A	A	B		D		C	A	
Hydrochloric Acid 20%	A		A	A		A	A	A	B	B	A	D	B	C	A	C
Hydrochloric Acid 25%	A	A	A	A		A	A	A	B	C	A	D				
Hydrochloric Acid 37% (Muriatic Acid)	A	A	A	A	D	A	A	C	C	C		D	B	C	B	D
Hydrocyanic Acid [prussic acid]	A	A	A	A		A	A	A	C	B	A	A		A	A	D
Hydrocyanic Acid 10% [formonitrile]	A		A	A		A	A	A	B	B	A	D	A		A	C
Hydrofluoric Acid 10%	A	A	A	A		A	A	A	A	B	A					
Hydrofluoric Acid 20%	A		A			A	A	A	C	D	C	D		D	B	
Hydrofluoric Acid 30%	A	D	A	A		A	A	A	A	C	A	C	B		A	C
Hydrofluoric Acid 40%	B		A	A		A	A	A	C	C	A	C	B		A	C
Hydrofluoric Acid 50%	D	C	A	B		A	A	A	B	C	A	D	B	D	A	C
Hydrofluoric Acid 65%	A		A	A	D	A	A	B	C	D	A	D			A	D
Hydrofluoric Acid 75%	D		A	A		A	A	D	D	D	A	D			A	D
Hydrofluosilicic Acid	D	B	A	A		A	A	A	C	A	A	D	A	A	C	D
Hydrofluosilicic Acid 20%	A		A			A	A	A	B	B		D		D	B	
Hydrogen	A	A	A	A		A	A	A	A	A	A	A	A		A	A
Hydrogen Chloride Gas Dry	A		A	A				A								
Hydrogen Cyanide [Hydrocyanic Acid]	A	A	A	A		A	A	A	B	B	A	A	A			C
Hydrogen Fluoride	D	D	A	A		A		A		C		A	A		A	A
Hydrogen Peroxide	A	A	A	A		A	A	B	C	C	B	B		B	A	D
Hydrogen Peroxide 05%	A		A	A		A	A	A				B				D
Hydrogen Peroxide 10%	A		A	A		A			D	A		C		C	A	
Hydrogen Peroxide 30%	A		C			A	A	B	D	D	C	B		B	A	
Hydrogen Peroxide 50%	B	A	A	A		A	A	C	D	D	A	A	A			B
Hydrogen Peroxide 90%	D		B	A	A	A	B	C	D	D	A	A	A	B	B	D
Hydrogen Phosphide (See Phosphine)	D		A	A		A				C						
Hydrogen Sulfide	A	A	A	A		A	A	A	A			A			B	
Hydrogen Sulfide (Aq. Sol.)	A	A	A	A		A	C	A	C	C	A	A		A	A	D
Hydrogen Sulfide (Dry)	A	A	A	A		A	A	A	A	A	A	A	A		A	B
Hydroquinone	A	A	A	A		A	A	A	D	D	A	A	A		A	A
Hydroxyacetic Acid (Glycolic Acid)	D			A		A	A		A	A		C		A		C
Hydroxyacetic Acid 70%	A						A	A	A	A				B		
Hydroxylamine Sulfate	A		A	A				A	A							
Hypochlorous Acid	A	A	A	A		A	B	B	D	D	D	D		B	B	D
Ink			A	A		A	A	A	A	A		A	A			D
Iodine Solution	D	A	A	A		A	A	A	C	C	A	D	B	A	A	D
Isobutyl Alcohol (See Alcohol, Isobutyl)	A		A	A	C	A	A	A	A	C		A	A	A	B	

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Isooctane [trimethylpentane]	A		A	A		A	A	D	A	A	A	A	A		A	A
Isophorone	D					A	D	D	D	D		C				C
Isopropyl Acetate	D		B			A	D	B	D	D		B	A			A
Isopropyl Alcohol (See Alcohol, Isopropanol)	A	A	A	A	A	A	A	A	A	A	A	A	A	A		B
Isopropyl Ether	D	D	B	A		A	D	D	D	B	C	A	A		A	A
Jet Fuel JP-3	A	A	A	A		A	A	D	C	A	C	A	A		A	A
Jet Fuel JP-4	A		C	A		A	A	D	D	A	C	A	A		A	A
Jet Fuel JP-5	A		C	A		A	A	D	C	A	C	A	A		A	A
Kerosene	A	A	A	A	D	A	A	D	D	A	C	A	A	A	A	A
Ketones	D	D	A	A		A	D	C	D	D	C	A	A	A	A	A
Kraft Liquor	A	A	A	A								A	A			C
Lacquer	D		A	D		A	D	D	D	D	D	A			A	D
Lacquer Thinner	C		B			A		A	D	D		A		A	A	
Lactic Acid (Milk Acid)	A	A	A	A	C	A	B	A	A	B	A	A	A	B	A	D
Lard	A	A	A	A		A	A	C	C	A	C	A				B
Lard Oil	A		A	A		A	A	A	C	A	C	A	A			A
Latex			A	A		A	A	B	A	A	C	A	A			
Lauric Acid	A	A	A	A		A						A	A			
Lauryl Chloride	A	A	A	A		A		A		A		A	A			
Lead Acetate (Sugar of Lead)	A	A	A	A		A	C	A	C	B	C	B	A	A	A	D
Lead Chloride	A	A	A	A		A	A	A	A	A	A	C				
Lead Nitrate	A	A	A			A	A	A	A	A	B	A	A			A
Lead Sulfate	A	A	A	A		A	A	A	B	A	A	B	B		B	C
Lemon Oil	A	D	D	A		D	A		D			A	A			
Levulinic Acid																
Ligroin (Benzine)	D		C	A		A	A	C	B	A	C	A				A
Lime (Calcium Oxide)	A		A	A		A	A	C	A	A	A	A		A		D
Lime Sulfur Solution	A		A	A		A	A	A	A	D	A	A		A		A
Linoleic Acid (Linolic Acid)	B	A	A	A		A	B	D	D	B	C	A	A		A	C
Linseed Oil (Flaxseed Oil)	A	D	A	A		A	A	B	A	A	A	A	A		A	A
Lithium Bromide	A			A		A	A		D	A						A
Lithium Chloride	A	A	A			A	D	A	A	A		A	A			C
LPG	D		A	A		A						B				B
Lubricants	A		A			A	A		D	A		A		A	A	
Lubricating Oil	A	A	A	A		A	A	D	C	A	C	A	A		A	A
Lye Solution (See Sodium Hydroxide & Potassium Hydroxide)	A	A	A	A												
Machine Oil	A	A	A	A		A	A		A							
Magnesium Acetate						A	D			D	A					
Magnesium Carbonate	A	A	A	A		A	A	B	A	A	A	A	A		B	B
Magnesium Chloride	A	A	A	A		A	A	A	A	A	A	B	B	A	A	C
Magnesium Citrate	A	A	A	A		A	A	A		A					B	
Magnesium Hydroxide [Milk of Magnesia]	A	A	A	A		A	A	A	A	A		A				A
Magnesium Nitrate	A	A	A	A		A	A	B	A	A	A	A		A	A	C
Magnesium Oxide		A				A	A	A	A	A		A				A
Magnesium Sulfate (Epsom Salts)	A	A	A	A		A	A	A	A	A	A	A	A	A	A	A
Maleic Acid	A	A	A	A		A	A	C	D	D	C	A	A	A	A	B
Maleic Anhydride						A	A	D	D	D		A			A	
Malic Acid (Apple Acid)	A	A	A	A		A	A	D	C	A	B	A		A	B	D
Manganese Sulfate	A	A	A			A	A	A	A	A	A	A	A			B
Mash							A		A	A		A				
Mayonnaise			A			A	A	D	D	A		A				D
Melamine (Triazane)						A				C		D				
Mercuric Chloride	A	A	A	A		A	A	A	A	A	A	D	B	A	A	D
Mercuric Cyanide	A	A	A	A		A	A	B	A	A	A	A	A	A		C
Mercuric Nitrate		A				A	A	A	A		A	A				

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Mercuric Sulfate	A	A	A	A		A	A	A		A						
Mercurous Chloride																
Mercurous Nitrate	A	A	A	A		A	A	A	C	A		A	A		C	C
Mercury (Quicksilver)	A	A	A	A		A	A	A	A	A	A	A	A	B	A	A
Methacrylic Acid Glacial	D						D	C	C	D						
Methane (Methyl Hydride)	A	A	A	A		A	A	C	B	A	A	A	A		A	A
Methane Sulfonic Acid		A		A		A										
Methanol (See Alcohol, Methyl)	A	C	A	A	C	A	D	A	A	A	A	A	A	A	A	A
Methoxyethyl Oleate	A															
Methyl Acetate	D		B	A		A	D	B	C	C	C	A	A		A	B
Methyl Acetone						A	D	A	C	D	C	A	A			A
Methyl Acrylate				A		A	D	B	C	D	C	A	A			A
Methyl Alcohol	A	A	A	A	C	A	C	A	A	A	A	A				A
Methyl Benzene (See Toluene)	D	D	C	A	C	A	A	D	D	D	D					
Methyl Bromide [Bromomethane]	D	D	D	A		A	A	C	D	D	C	B	B			BA
Methyl Butanol (See Alcohol, Amyl)						A	A		A	A	A					
Methyl Butyl Ketone	A			D		A	D	B	D	D	D	A				
Methyl Cellosolve	D	D	A	A		A	D	B	C	D	A	A	A			B
Methyl Chloride (Chloromethane)	D	D	D	A		A	C	C	D	C	D	A	A	A	A	A
Methyl Chloroform (Trichloroethane)	D	D	C	A		A	B	D	C	C	C	A	A			
Methyl Ether (See Dimethyl Ether)						A	C	C	C	B	C	C				C
Methyl Ethyl Ketone (MEK)	D	D	C	D	D	A	D	A	D	D	C	A	A	A	A	A
Methyl Formate		D				A	D	A	B	D	C	A	A		A	C
Methyl Isobutyl Alcohol									D	D						
Methyl Isobutyl Carbinol						A	A	A	A	A	A					
Methyl Isobutyl Ketone	D	D	C	A	D	A	D	B	D	D	C	A	A	A	A	C
Methyl Isopropyl Ketone	D		D	A	D	A	D	C	D	D	C	A				C
Methyl Methacrylate	A			D		A	D	D	C	D	A	C				C
Methyl Propanol						A	A	B	A	A	A					
Methyl Salicylate (Wintergreen Oil)	A	A	A	A				C	D	D						A
Methylamine	D	D	D	C		A	D	A	A	B		A				
Methylene Bromide	D			D		A	C	D	D	D	C	A				A
Methylene Chloride	D	D	D	C	D	A	B	D	D	D	D	A	A	A	A	B
Methylene Iodine	D			C		A	A	A								
Methylhexane						A	A	D	B	A	D					
Methylisobutyl Carbinol	A		A	A			A	A								
Methylmethacrylate		D		A		A	D	D								
Methylsulfuric Acid	A		A	A		A										
Milk	A	A	A	A		A	A	A	A	A	A	A	A			D
Mineral Oil	B	A	A	A	C	A	A	D	C	A	B	A	A		A	A
Molasses	A		A	A		A	A	A	A	A	A	A	A		A	A
Monochloroacetic Acid (See Chloroacetic Acid)	A		B	A		A	B	C		D						D
Monochlorobenzene (See Chlorobenzene)			B	A		A	A	D	C	D	C	A	A			A
Monoethanolamine	D			D		A	A	A	D	A		A	A			A
Morpholine			B	B		A		A	C	C	C	A	B			B
Motor Oil	A	A	C	A		A	A	D		A		A	A			A
Mustard	A		A			A	A	A	A	B		A			A	B
Naphtha	A	A	A	A		A	A	D	D	B	C	A	A	A	A	A
Naphthalene (Tar Camphor)	D	D	B	A		A	B	D	D	D	C	A	A	A	A	A
Natural Gas	A		A	A		A	A	D	A	A	A	A	A		A	A
Neon						A	A	A	A	A	A	A				A
Nickel	A		A			A	A	A	A	A						
Nickel Acetate	A	A	A	A		A	D	A	B	B	C	C				
Nickel Chloride	A	A	A	A		A	A	A	A	A	A	B	A	A	A	D
Nickel Cyanide	A															
Nickel Nitrate	A	A	A	A		A	A	B	B	A	A	B	A			C

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Nickel Sulfate	A	A	A	A		A	A	A	A	A	A	A			A	D
Nicotine	A		D	C		A			C	C	A	A	A			C
Nicotine Acid	A		A	A		A		A	A			B	B			C
Nitric Acid 10%	A	A	A	A	C	A	A	B	C	D	A	A	A	A	A	D
Nitric Acid 20%	A	A	A			A	A	D	D	D		A				D
Nitric Acid 30%	A	A	A	B		A	A	B	C	D	A	A				D
Nitric Acid 40%	A		C	B		A	A	D	C	D	A					C
Nitric Acid 50%	A	A	A	B		A	A	D	D	D	C	A	A			C
Nitric Acid 70%	D	B	D	D		A	C	D	D	D	C	A	A			C
Nitric Acid Concentrate	D	D	D	D		A	C	D	D	D	C	A				D
Nitric Acid Fuming	D		D	D		A	C	D	D	D	C	A	A			D
Nitrobenzene (Oil of Mirbane) [ligroin]	D	D	A	A	D	A	C	C	D	C	C	B	A	A	A	A
Nitroethane				A		A	D	A	C	D		A				A
Nitrogen						A	A	A	A	A	A	A	A			A
Nitrogen Dioxide				A		A										
Nitrogen Solutions									A		A					
Nitroglycerine	D					A		A				A	A			B
Nitromethane				A		A	D	B	D	D		A				A
Nitrous Oxide	A	A	A	A		A	A	A	C	A	B	A	A		A	B
Ocenol	A	A	D	A												
Octane				A		A	A	D								
Octyl Acid (Caprylic Acid)				A		A				C	B					
Octylamine						A	D			C	C					
Oils	A	D	A	A												
Oils, Aniline	D		A			A	A	B	D	D		A		A	A	
Oils, Anise									D			A				
Oils, Bay							A		D			A				
Oils, Bone							A		D	A		A				
Oils, Castor	A						A	B	A	A		A				
Oils, Cinnamon	A						A		D			A				
Oils, Citric			A				A		D	A		A				
Oils, Clove			B							A		A				
Oils, Coconut			A				A	A	A	A		A				
Oils, Cod Liver			A				A	A	A	A		A				
Oils, Corn			A				A	C	D	A		A				
Oils, Cotton Seed	A		A			A	A	C	D	A		A				C
Oils, Creosote			D				A	D	C	B		A				
Oils, Crude Sour		D														
Oils, Diesel Fuel			A				A	D	D	A		A				
Oils, Fuel	A					A	A	D	D	B		A		A	A	
Oils, Linseed	A		A				A	D	D	A		A				
Oils, Mineral	A		A				A	D	A	A		A				
Oils, Olive	A		A			A	A	B	D	A	B	A	A		A	A
Oils, Pine	A					A	A		D	C		A				
Oils, Silicone			A				A		A	A		A				
Oils, Vegetable	A	A	A	A			A			A		A		A		
Oleic Acid (Red Oil)	A		A	A		A	B	C	B	B	A	A	A	A	A	C
Oleum	D	D	D	D		A	D	D	D	D	D	A		A		B
Orange Extract			A	A		A										
Oxalic Acid	A	A	A	A		A	A	A	B	B	A	A	A	C	A	D
Oxygen Gas	A	A	A	A		A	A	A	A	C	A	A	A	A	A	A
Ozone	A		C	A		A	A	A	B	D	A	A	A		A	A
Palmitic Acid 10%	A	A	A	A		A	A	B	B	A	C	A	A		B	A
Palmitic Acid 70%	D		A			A	A	B	C	A	C	A	A			A
Paraffin	A	A	A	A		A	B	D	A	A	D	A	A		A	A
Pentane (Amyl Hydride)	C					A	A	D	B	A	B	C		A	B	B

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Peracetic Acid 40%	D		D	A		A	A	B								
Perchloric Acid 10%	A	A	A	A	D	A	A	B	A	D	A	B	A			D
Perchloric Acid 70%	D		A	A		A	A	A	A	D	A	B	B			
Perchloroethylene	D		D	A	D	A	A	D	D	D	C	A	A		A	B
Perphosphate	A		A			A	A	A		A						
Petrolatum (Petroleum Jelly)	A		A	A		A	A	C	B	A	B	A				C
Petroleum (Sour)	A						A	D		A						
Petroleum Oils	A		B	A		A	A	D	C	A	C	A				A
Phenols 100% (Carbolic Acid)	D	A	A	A	C	A	B	C	D	D	C	A	A	A	A	D
Phenylacetate						A	D	B	D	D	C					
Phenylhydrazine	D	D	D	A		A	C	C	D	D	C					
Phenylhydrazine Hydrochloride	D		D	A												
Phosgene Gas	D		C	A			D	A	C	D						
Phosgene Liquid	D		D	C			D	A	C	D						
Phosphoric Acid 10%	A	A	A	A	C	A	A	A	C	C	A	A	A	B	A	D
Phosphoric Acid 100%	A	A	A	A		A	A	B	D	D	C	B		B	A	
Phosphoric Acid 20%	A	A	A	A		A	A	A	B	C	A					
Phosphoric Acid 40%	A	A	A			A	A	B	D	D		A		A	A	
Phosphoric Acid 50%	A	A	A	A	C	A	A	A	C	C	A	B	A	B	A	D
Phosphoric Acid 80%	A	A	A	A		A	A	A								
Phosphoric Acid 85%	A	A	A	B	C	A	A	A	C	C	B	B	A	C	A	D
Phosphoric Acid Crude						A	A	B	D	C	A	C		C	A	
Phosphorus Oxychloride						A			D		D	D			B	D
Phosphorus Red	A		A	A		A						A	A			
Phosphorus Trichloride	D	D	D	A		A	C	C	D	D	C	A	A			B
Phosphorus Yellow	A		A	A		A			C							
Photographic Developer	A	A	A	A		A	A		A	A		A		A	A	C
Photographic Solutions	A	A	A	A		A	A			A		A	A			
Phthalic Acid (Terephthalic Acid)	D	D	D	A		A	A	A	C	C	A	A	A		A	C
Phthalic Anhydride	D		D	A		A	A	A	A	C		B			A	A
Pickle Brine	A		A	A					A		A					
Pickling Solutions	A		A	A		A	B	C	D	D	D					
Picric Acid	D	D	A	A		A	A	C	A	C	A	A	A		A	C
Pine Oil	D	D	C		C	A	A	D	C	B	D	A	A			B
Plating Solution, Arsenic	A	A	A				A		A	A		A		A	A	
Plating Solutions, Antimony	A	A	A			A	A		A	A		A		A	A	
Plating Solutions, Brass	A	A	A	A		A	A	A	A	A		A		A	A	
Plating Solutions, Bronze	A	A	A			A	A		A	A		A		A	A	
Plating Solutions, Cadmium	A	A	A	A		A	A	A	A	A		A		A	A	
Plating Solutions, Chrome	A	A	A	A		A	C	B	C	D	D	C	A	A	A	
Plating Solutions, Copper	A	A	A	A		A	A	A	A	A		D		A	A	
Plating Solutions, Gold	A	A	A	A		A	A	A	A	A		C		A	A	
Plating Solutions, Indium	A	A	A			A	A		A	A		C		A	A	
Plating Solutions, Iron	D	A	C			A	A		C	A		C		A	D	
Plating Solutions, Lead	A	A	A	A		A	A	A	A	B		C		D	A	
Plating Solutions, Nickel	A	A	A	A		A	A	A	A	A		C	A	A	A	
Plating Solutions, Rhodium	A	A	A	A		A	A	A	B	A		D		D	D	
Plating Solutions, Silver	A	A	A	A		A	A	A	A	A		A	A	A	A	
Plating Solutions, Tin	A	A	A	A		A	A	A	C	B		C	A	D	A	
Plating Solutions, Zinc	A	A	A	A		A	A	A	A	A		D		A	D	B
Polyethylene Glycol	A	D	A	A		A	A	A		A	A					
Polyvinyl Acetate Emulsion				A		A	A	A	B		B					C
Polyvinyl Alcohol	A		A	A		A	A	A								
Potash (Potassium Carbonate)	A	A	A	A		A	A	A	A	A	A	A	A	A	A	C
Potassium Acetate	A	A	A	A		A	D	A	B	B	B	C				C
Potassium Alum (Aluminum Potassium Sulfate)	A	A	A	A		A	A	A	A	A	A					

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Potassium Bicarbonate	A	A	A	A		A	A	A	A	A	A	B	A	A	B	A
Potassium Bichromate	A	A	A	A		A	A	A	B	A	A	A	A			B
Potassium Bisulfate	A	A	A	A		A	A	A	A	A	A	A	A			C
Potassium Bromate	A	A	A	A		A	A	A	A	A	A	A	A			A
Potassium Bromide	A	A	A	A		A	A	A	A	A	A	B	A	A	B	D
Potassium Carbonate (Potash)	A	A	A	A		A	A	A	A	A	A	A	A	A	B	C
Potassium Chlorate Aqueous	A	A	A	A		A	A	A	A	A	A	A	A	A	B	B
Potassium Chloride	A	A	A	A		A	A	A	A	A	A	A	A	A	A	C
Potassium Chromate	A	A	A	A		A	A	A	A	A	A	B	A		B	B
Potassium Coppercyanide	A		A	A		A	A	A	A	A						
Potassium Cyanide	A	A	A	A		A	B	A	A	A	A	B	A	A	A	B
Potassium Dichromate	A	A	A	A		A	A	A	A	A	A	A	A	A	B	C
Potassium Ferricyanide	A	A	A	A		A	A	A	A	A	A	A	A			C
Potassium Ferrocyanide	A	A	A	A		A	A	A	A	C	A	A	A		B	C
Potassium Fluoride	A	A	A	A		A	A	A	A	A	A	A	A			
Potassium Hydroxide (Caustic Potash)	A	A	A	A	C	A	C	B	B	C	A	A		C	B	A
Potassium Hydroxide 25%		A				A		A	A	B	A	A	A			B
Potassium Hydroxide 50%	A	A	A	B												
Potassium Hypochlorite	A	A	A	A		A	A	A	D	D	A	B	A			B
Potassium Iodide	A	A	A	A		A	A	A	A	A	A	A	A			B
Potassium Nitrate (Salt Peter)	A	A	A	A		A	B	A	A	A	A	D	A	A	A	B
Potassium Perborate	A	A	A	A		A			A	A						
Potassium Perchlorate	A	A	A			A		A	C	C	A					
Potassium Permanganate	A	A	A	A		A	B	A	A	C	A	B	A	B	A	A
Potassium Persulfate	A	A	A	A		A		A	C	C	A	A				
Potassium Phosphate		A				A	A	A	A	A		C				D
Potassium Salts			A	A		A	A	A	A	A						
Potassium Sulfate	A	A	A	A		A	A	A	A	A	A	B	A	A	A	A
Potassium Sulfide	A	A	A	A		A	A	A	A	A	A	B	B		B	C
Potassium Thiosulfate						A	A		A	A	A	C				
Propane (Dimethylmethane)	A	A	B	A	D	A	A	D	B	A	B	A	A		A	A
Propanol (See Alcohol, Propyl)	A	A	A	A		A	A	A	A	A	A	A	A		A	A
Propargyl Alcohol	A		A	A				A	A		C					
Propyl Acetate				A		A	D	B	D	D	C	A	A			A
Propyl Alcohol	A	A	A	A		A	A	A	A	A	A	A	A		A	A
Propylene						A	A	D	D	D	D	A				A
Propylene Dichloride	D	D	C	A		A	B	D	D	D	D	A				A
Propylene Glycol	C	A	A		C	A	A	A	A	A	A	A			B	B
Pyridine	D	D	A	C		B	D	C	D	D	C	C	A		A	A
Pyrogalllic Acid (Pyrogallol)	B		A	D		A	A	C	A	A		A	A		A	B
Quaternary Ammonium Salts						A	A		A	A		A				D
Rayon Coagulating Bath	A		A	A												
Rhodan Salts	A		A	A		A	A	A								
Rosins	C		A			A	A	D	A	A	A	A	A		B	C
Rum	A		A			A	B	A	A	A	A	A				
Rust Inhibitors			A				A		C	A		A				D
Salad Dressing	A		A				A			A		A				D
Salicylaldehyde	D		A	C		A	A	A		A						
Salicylic Acid	A		A	A	C	A	A	A	C	C	A	A	A			C
Saline Solutions	A		A	A					A							
Salt Brine	A	A	A	A		A	A	A	A	A	A	A			B	
Sea Water	A	A	A	A		A	A	A	B	A		A		A	A	D
Selenic Acid	A		A	A					A	A	A				A	
Sewage	A		A	A		A	A	A	B	A	A	A				D
Shellac Bleached			A			A	A	D	C	A		A				A
Shellac Orange			A			A	A	D	C	A		A				A

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Silicic Acid	A	A	A	A		A	A	A	A	A	A					
Silicone Oil	A	A	A	A		A	A	A	A	A	A	A	A		A	A
Silver Bromide						A						C			A	D
Silver Cyanide	A	A	A	A		A	A	A	A			A	A			D
Silver Nitrate	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	D
Silver Salts	A		A	A		A	A	A	A			A				
Silver Sulfate	A	A	A	A		A	A	A	A	A				A		
Soap Solutions	A	A	A	A		A	A	A	A	A	A	A	A	A	A	A
Soda Ash (Sodium Carbonate)						A	A	A	A	A	A	C				C
Sodium	A		A	A		A	A	A								
Sodium Acetate	A	A	A	A	C	A	C	A	B	C	A	B	A	A	A	C
Sodium Alum	A	A	A	A		A	A	A	A	A	A					C
Sodium Aluminate		A				A	A	A	A	A	A	A	A	B	A	A
Sodium Benzoate	A	A	A	A		A		A		A						
Sodium Bicarbonate	A	A	A	A		A	A	A	A	A	A	A	A	A	A	C
Sodium Bichromate	A	A	A	A		A	A	A	A	A	A	A	A			C
Sodium Bisulfate	A	A	A	A		A	A	A	A	A	A	A	A	A	B	D
Sodium Bisulfite	A	A	A	A		A	A	A	A	A	A	A	A	A	A	D
Sodium Borate (Borax)	C	A	A	A		A	A	A	A	A	A	A	A	A	A	C
Sodium Bromate																
Sodium Bromide	A	A	A	A		A	A	A	A	A		A	A	A		C
Sodium Carbonate (Soda Ash)	A	A	A	A		A	A	A	A	A		A	A	A	A	B
Sodium Chlorate	A	A	A	A		A	A	A	A	C	A	B	A	A	B	C
Sodium Chloride (Salt)	A	A	A	A		A	A	A	A	A	A	C	B	A	A	C
Sodium Chlorite	D	A	A			B	D	D		B	A					
Sodium Chromate		A	A			A	B	A	A	A	C	A	A	A	B	B
Sodium Cyanide	A	A	A	A		A	A	A	A	A	A	A	A	A		A
Sodium Dichromate	A	A	A	A		A	A	A	B	A	A	A	A			B
Sodium Ferricyanide	A	A	A	A		A	A	A		A		A	A			C
Sodium Ferrocyanide	A	A	A	A		A	A	A		A		A	A			
Sodium Fluoride	A	A	A	A		A	B	A	B	A	A	B	A	A	A	C
Sodium Hydrosulfide						A	A	A	A	D						
Sodium Hydrosulfite	C					A	A		A						A	
Sodium Hydroxide 15%	A	A	A	A		A	C	A	A	A	A	A		A		
Sodium Hydroxide 20%	A	A	A	A	D	A	C	A	A	A		A		A	A	A
Sodium Hydroxide 30%	A	A	A	A		A	C	A	A	A	A	A		A		B
Sodium Hydroxide 50%	A	A	A	A	D	A	C	A	A	A	A	A	A	A	A	B
Sodium Hydroxide 70%	A	A	A	B	D	A	D	A	B	C	A	B	A	A	B	C
Sodium Hydroxide Conc. (Caustic Soda)	A	A	A	A	C	A	B	A	B	D	B					C
Sodium Hypochlorite 20% (Bleach)	A	A	A	A	C	A	A	B	C	C		C		A	A	D
Sodium Hypochlorite Conc.	A	A	B	A	D	A	D	D	C	D	A	A	A		A	D
Sodium Hyposulfate						A			C			A				D
Sodium Metaphosphate	A	A	A	A		A	A	A	B	A	A	A	A			C
Sodium Metasilicate	A		A	A		A	A	A	A	A		A				B
Sodium Nitrate	A	A	A	A		A	B	A	B	C	A	B	A	A	A	A
Sodium Nitrite	A	A	A	A		A	A	A	A	C	A	A	A			B
Sodium Palmitrate	A		A	A		A										
Sodium Perborate	A	A	A	A		A	A	A	C	C	B	C	A		A	B
Sodium Perchlorate	A	A	A	A		A				B						
Sodium Peroxide	A		A	A		A	A	A	C	B	A	A	A		B	C
Sodium Phosphate Acid (Di Basic)	A	A	A	A		A	A	A	B	A	A	A	A		A	B
Sodium Phosphate Alkaline (Mono Basic)	A		A	A		A	A	A	A	A	A	A	A		A	B
Sodium Phosphate Neutral (Tri Basic)	A		A	A		A	A	A	A	A	A	A	A		A	B
Sodium Polyphosphate	A			A		A	A	A	D	B	B	A		A	A	D
Sodium Silicate	A	A	A	A		A	A	A	A	A	A	A	A	A	A	A
Sodium Sulfate	A	A	A	A		A	A	A	A	A	A	A	A	A	A	A

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Sodium Sulfide	A	A	A	A		A	A	A	A	C		B	A	A	A	B
Sodium Sulfite	A	A	A	A		A	A	A	A	A	A	A	A	A	A	
Sodium Tetraborate	A		A	A		A	A			A		A				
Sodium Thiocyanate	A	A	A	A		A	A	A								
Sodium Thiosulfate	A		A	A		A	A	A	A	B	A	A	A			D
Sorghum						A	A		A	A		A				A
Soy Sauce						A	A		A	A		A				D
Soybean Oil	A	D	A	A		A	A	C	A	A	A	A	A		A	A
Stannic Chloride	A	A	A	A		A	A	A	C	A	A	D	A	A		D
Stannic Salts	A		A	A		A	A	A	A			D				
Stannous Chloride (Tin Salts)	A	A	A	A		A	B	B	A	B	A	C	A	A	A	D
Starch (Amylum)	A	A	A			A	A	A	A	A	A	A	A			D
Stearic Acid	A	A	A	A		A	A	C	C	B	A	A	A	A	A	C
Stoddard Solvent	D	D	C	A		A	A	D	C	A	C	A	A	A	A	A
Strontium Carbonate																
Styrene	D	D		A		A	C	D	D	D	C	A	A		A	A
Succinic Acid (Butanedioic Acid)	A		A	A		A	A	A		A		A	A		A	A
Sugar Solutions		A	A			A	A	A	A	A	A	A			A	B
Sulfamic Acid	D	A	D	D				C	A	C	A	A	A			C
Sulfate Liquors	A	A	A	A		A	A	A	A	A	A	C	A		A	C
Sulfated Detergents	A		A	A											A	
Sulfer 10%	A		A			A	A	D	D	C		C		A	A	
Sulfer Dioxide	D		D			A	C	A	B	D		A		A	B	
Sulfite Liquor	A		A	A		A	A	A	C	B						
Sulfur	A	A	A	A		A	A	C	A	C	A	A	A	A	A	C
Sulfur Chloride	A	A	C	A		A	A	D	D	D	A	D	B			D
Sulfur Dioxide Dry	A	A	A	A	C	A	A	A	D	D	A	A	A		B	A
Sulfur Dioxide Wet	D	A	A	A	C	A	A	A	C	D	A	A	A		A	
Sulfur Slurries	A		A	A												
Sulfur Trioxide Dry	C	A	D	D		B	C	C	D	C	C	A				A
Sulfuric Acid 10%	A	A	A	A	A	A	A	A	C	C	B	C		A	A	D
Sulfuric Acid 100%	D	A	D	C		B	C	D	D	D	D	C		D	B	B
Sulfuric Acid 30%	A	A	A	A		A	A	A	A	C	A	D	A	C	A	C
Sulfuric Acid 50%	A	A	A	A		A	A	B	C	C	A	D	A	C	A	D
Sulfuric Acid 60%	A	A	A	B		A	A	B	C	D	A	D	A	C	A	C
Sulfuric Acid 70%	A	A	C	A		A	A	A	D	C	A	D	A	C	B	C
Sulfuric Acid 80%	A	A	A	A	D	A	A	A	D	C	A	B	A	D	A	D
Sulfuric Acid 90%	B	A	C	A		A	A	A	D	C	A	A	A	D	A	C
Sulfuric Acid 95%	D	A	D	A		A	A	D	D	D	C	D	B	D	A	C
Sulfuric Acid 98%	D	A	D	A		B	D	D	D	C	C	D	B	D	B	C
Sulfurous Acid	A	A	A	A		A	A	C	C	D	A	B	A	A	B	D
Sulfuryl Chloride	A					A									B	
Syrup	A		A			A	A	A	B	A		A				
Tall Oil	A	C	A	A		A	A	D	B	A	C	B	A		A	B
Tallow			A	A		A	A	A	B	A	B	A				
Tannic Acid	A	A	A	A		A	A	B	A	C	A	C	A	A	A	C
Tanning Liquors	A	A	A	A		A	A	B	A	C	A	A	A	A	A	
Tar	D		B	A		A	A	D	C	C	A	A	A		A	A
Tartaric Acid (Dihydrxy-succinic Acid)	A	A	A	A	C	A	A	B	A	A	A	B	A	A	A	D
Tertiary Butyl Alcohol	A		A	A		A	A	B	C	D						
Tetrachlorethane	D		A			A	A	D		D		A		A	A	
Tetrachloroethane	D		D	A		A	A	D	D	D	C	A	A			A
Tetraethyl Lead	B	A	A	A		A	B	D	C	C	C	B	A			B
Tetrahydrofuran	D	D	C	B		A	D	D	D	D	C	A				
Tetralin	D		D	A		A	A	D	D	D	D	A				A
Thionyl Chloride	D	D	D	D	D	A	A		D	D		D				D

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Thread Cutting Oils	A		A	A		A		D		A		A	A		A	A
Titanium Tetrachloride	D	D	D	A		A	A	D	D	C	C	C	B	A	C	C
Titanous Sulfate	A		A	A		A										
Toluene	D	D	C	A	C	A	B	D	D	D	D	A	A	A	A	A
Toluene Toluol	D	D	C	B	C	A	C	D	D	D	D	A		A	A	A
Tomato Juice	A	A	A	A		A		A	A	A	C	A	A		B	D
Toxaphene-Xylene	D		D	A												
Transformer Oil	A		A	A		A	A	D	C	A	D	A	A		A	A
Tributyl Phosphate	D	D	B	A		A	D	A	C	D	C	A	A	A		A
Trichloroacetic Acid	A	A	A	A		A	D	D	D	D	A	D	B	B		D
Trichloroethane	D		D	A		A	A	D	D	D		A		A	A	C
Trichloroethylene	D	D	C	A		A	A	D	D	C	C	A	A	B	A	B
Trichloropropane						A	A		C	A		A		A		A
Tricresyl Phosphate	D		A	D		A	B	A	D	D		A		B	A	C
Triethanolamine	B	D	D	C		A	D	A	A	B	A	A	A	A		A
Triethyl Phosphate	A		A	A		A	A	A				A				
Triethylamine	A	A	D	C			A		A	A						
Trimethylpropane	A		A	A		A		A	A	A	A					
Trisodium Phosphate	A	A	A	A		A	A	A	A	A	A	A	A			
Turbine Oil	A		B			A	A	D	D	B	D	A				A
Turpentine	D	D	B	A	D	A	A	C	D	A	C	A	A		A	A
Urea	A	A	A	A	D	A	A	A	A	C	A	A	A			C
Urine	A	A	A	A		A	A	A	D	A	A	A	A			CA
Vanilla Extract			A			A	D		D	A		A				
Varnish	D		A	A		A	A	D	D	B	D	A	A		A	C
Vaseline	D		A	A		A	A	D	B	A	B	A	A		A	A
Vegetable Oil	A	D	A	A		A	A	A	D	A	A	A	A		B	A
Vinegar	A	A	A	A		A	A	A	A	C	A	A	A	A	A	D
Vinyl Acetate	D	D	B	A		A	D	B	C	D	C	A	B			C
Vinyl Chloride	D			A		A	A	C	D	D	D	A				C
Vinyl Ether						A	D			B	B					
Water Acid Mine	A	A	A	A		A	A	A	C	A	A	A	A		A	D
Water Deionized	A	A	A	A		A	A	A	A	A	A	A	A		A	C
Water Demineralized	A	A	A	A			A	A		A					A	
Water Distilled	A	A	A	A		A	A	A	A	A	A	A	A		A	D
Water Potable	A		A	A		A	A	A	A	A	A	A	A		A	B
Water Salt	A	A	A	A		A	A	A	A	A	A	A	A		A	D
Water Sewage	A		A	A		A	A	A		A					A	
Weed Killers							A		C	B		A				
Whey						A	A			A		A				
Whiskey	A	A	A	A		A	A	A	A	A	A	A	A		A	D
White Acid				A		A										
White Liquor	A	A	A	A		A	A	A	A	B	A	A	A		A	C
Wines	A	A	A	A		A	A	A	A	A	A	A	A			D
Xenon						A	A	A	A	A	A	A				
Xylene	D	D	D	A	D	A	B	D	D	D	C	A	A		A	A
Xylol	D		C	A	D	A	A	D	D	C	D	C				C
Yeast			A	A		A	A	A	A							
Zeolite						A	A	A	C	B	A					
Zinc Acetate	A	A	A	A		A	C	A	A	B	A	A	A			C
Zinc Carbonate		A				A	A	A		A	A	B	A			C
Zinc Chloride	A	A	A	A		A	A	A	A	A	A	B	A	A	C	D
Zinc Chromate						A					C					
Zinc Nitrate	A	A	A	A		A	A	A		A	A	A	A			
Zinc Phosphate																
Zinc Salts			A	A		A	A	A	A	A	A					

CHEMICAL	THERMOPLASTIC						ELASTOMER					METAL				
	PVC	CPVC - CORZAN	PP	PVDF - KYNAR	Polycarbonate	Teflon	Viton	EPDM	Neoprene	Nitrile	Hypalon	316 S/S	Alloy 20	Titanium	Hastelloy C	Carbon Steel
Zinc Sulfate	A	A	A	A		A	A	A	A	A	A	A	A	A	A	D
Zirlite						A	C	A	A	B	B					

FORMULA	CHEMICAL
$\text{CH}_3(\text{CH}_2)_2\text{NO}_2$	1-Nitropropane
$(-\text{CH}_2-\text{O}-)_n$	Acetal Resin Slurry
CH_3CHO	Acetaldehyde [Ethanal]
CH_3CONH_2	Acetamide [Acetic Acid Amide]
CH_3COOR	Acetate Solvents
CH_3COOH	Acetic Acid
$(\text{CH}_3\text{CO})_2\text{O}$	Acetic Anhydride [Acetic Oxide]
CH_3COCH_3	Acetone [Dimethylketone]
$(\text{CH}_3)_2\text{C}(\text{OH})\text{CN}$	Acetone Cyanohydrin
CH_3CN	Acetonitrile [Methyl Cyanide]
$\text{C}_6\text{H}_5\text{COCH}_3$	Acetophenone [Phenyl Methyl Ketone]
$\text{CH}_3\text{COCH}_2\text{COCH}_3$	Acetyl Acetone (2,4-Pentanedione)
CH_3COCl	Acetyl Chloride
$(\text{CH}_3\text{OCO}) \text{ C}_6\text{H}_4\text{COOH}$	Acetyl Salicylic Acid [Aspirin]
C_2H_2	Acetylene
$(\text{CHBr}_2)_2$	Acetylene Tetrabromide [Tetra Bromoethane]
$\text{H}_2\text{C}=\text{CHCHO}$	Acrolein [Acrylaldehyde]
$\text{H}_2\text{C}:\text{CHCOOH}$	Acrylic Acid
CH_2CHCN	Acrylonitrile [Vinyl Cyanide]
$\text{HOOC}(\text{CH}_2)_4\text{COOH}$	Adipic Acid [1,4-Butanedicarboxylic Acid]
$(\text{C}_n\text{H}_{2n+1}\text{OH})$	Alcohol General Formula
R-OH	Alcohols
$\text{CH}_2\text{CHCH}_2\text{OH}$	Allyl Alcohol [2-Propen-1-ol]
$\text{H}_2\text{C}=\text{CHCH}_2\text{Br}$	Allyl Bromide [3-Bromopropene]
$\text{CH}_2=\text{CHCH}_2\text{Cl}$	Allyl Chloride [3-Chloropropene]
$\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	Alum [Aluminum Potassium Sulfate Dodecahydrate]
$\text{Al}(\text{OH})_3$	Alumina Trihydrate
AlCl_3	Aluminum Chloride
$\text{Al}_2(\text{SO}_4)_3$	Aluminum Sulfate
NH_3	Ammonia
$\text{AlNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	Ammonium Alum
NH_4HCO_3	Ammonium Bicarbonate
NH_4HF_2	Ammonium Bifluoride
$(\text{NH}_4)_2\text{CO}_3$	Ammonium Carbonate
NH_4Cl	Ammonium Chloride [Sal Ammoniac]
$(\text{NH}_4)_2\text{Cr}_2\text{O}_7$	Ammonium Dichromate
NH_4F	Ammonium Fluoride
NH_4OH	Ammonium Hydroxide
NH_4NO_3	Ammonium Nitrate
NH_4NO_2	Ammonium Nitrite
$(\text{NH}_4\text{OOC})_2$	Ammonium Oxalate
$(\text{NH}_4)_2\text{S}_2\text{O}_8$	Ammonium Persulfate
$(\text{NH}_4)\text{HPO}_4$	Ammonium Phosphate, [Di-basic]
$(\text{NH}_4)\text{H}_2\text{PO}_4$	Ammonium Phosphate, [Monobasic]
$(\text{NH}_4)_3\text{PO}_4 \cdot 3\text{H}_2\text{O}$	Ammonium Phosphate, [Tri-basic]
$(\text{NH}_4)_2\text{SO}_4$	Ammonium Sulfate
$(\text{NH}_4)_2\text{S}$	Ammonium Sulfide
$(\text{NH}_4)_2\text{SO}_3 \cdot \text{H}_2\text{O}$	Ammonium Sulfite
NH_4SCN	Ammonium Thiocyanate
$(\text{NH}_4)_2\text{S}_2\text{O}_3$	Ammonium Thiosulfate

FORMULA	CHEMICAL
$C_4H_9CH_2OH$	Amyl [1-Pentanol]
$CH_3COOC_5H_{11}$	Amyl Acetate [Banana Oil]
$CH_3(CH_2)_4OH$	Amyl Alcohol [Pentyl Alcohol]
$CH_3(CH_2)_4Cl$	Amyl Chloride [Chloropentane]
$C_{15}H_{18}$	Amyl Naphthalene
$C_6H_4(OH)C_5H_{11}$	Amyl Phenol
$C_5H_{11}BO_3$	Amyll Borate
$C_6H_5NH_2$	Aniline [Aniline Oil] [Amino Benzene]
$C_6H_5NH_2 \cdot HCl$	Aniline Hydrochloride
$C_6H_5OCH_3$	Anisole [Methylphenyl Ether]
$C_{14}H_8O_2$	Anthraquinone
$SbCl_5$	Antimony Pentachloride
$SbCl_3$	Antimony Trichloride
$HCl + HNO_3$	Aqua Regia [Nitric & Hydrochloric Acid]
C_6H_5R	Aromatic Hydrocarbons
$H_3AsO_4 \cdot 1/2H_2O$	Arsenic Acid
$AsCl_3$	Arsenic Trichloride [Arsenic Butter]
$C_6H_8O_6$	Ascorbic Acid
C_4H_5N	Azole [Pyrrole]
$NaHCO_3$	Baking Soda [Sodium Bicarbonate]
$BaCO_3$	Barium Carbonate
$BaCl_2 \cdot 2H_2O$	Barium Chloride Dihydrate
$Ba(CN)_2$	Barium Cyanide
$Ba(OH)_2$	Barium Hydroxide [Barium Hydrate]
$Ba(NO_3)_2$	Barium Nitrate
$BaSO_4$	Barium Sulfate [Blanc Fixe]
BaS	Barium Sulfide
C_6H_5CHO	Benzaldehyde
C_6H_6	Benzene [Benzol]
$C_6H_5SO_3H$	Benzene Sulfonic Acid
C_6H_5COOH	Benzoic Acid
C_6H_5COCl	Benzoyl Chloride
$CH_3CO_2CH_2C_6H_5$	Benzyl Acetate
$C_6H_5CH_2OH$	Benzyl Alcohol [Phenylcarbinol]
$C_6H_5CO_2CH_2C_6H_5$	Benzyl Benzoate
$C_6H_5(CH_2)_2OH$	Benzyl Carbinol [Phenethyl Alcohol]
$C_6H_5CH_2Cl$	Benzyl Chloride [Chlorotoluene]
$C_6H_5CHCl_2$	Benzyl Dichloride [Benzal Chloride]
$HOC_6H_4COOCH_3$	Betula Oil [Methyl Salicylate]
$C_6H_5C_6H_5$	Biphenyl [Diphenyl]
$(BiO)_2CO_3$	Bismuth Subcarbonate [Bismuth Carbonate]
$CO_1H_2CH_4CO_2N_2$	Blast Furnace Gas
$Na_2B_4O_7 \cdot 10H_2O$	Borax [Sodium Borate]
H_3BO_3	Boric Acid
$HBrO_3$	Bromic Acid
Br_2	Bromine - Anhydrous
BrF_3	Bromine Trifluoride
$Br + H_2O$	Bromine Water
C_6H_5Br	Bromobenzene
$BrCH_2Cl$	Bromochloromethane

FORMULA	CHEMICAL
$C_6H_4BrCH_3$	Bromotoluene
C_4H_6	Butadiene
C_4H_{10}	Butane [LPG] [Butyl Hydride]
$C_3H_7CH_2OH$	Butyl [Butanol]
$CH_3COOC_4H_9$	Butyl Acetate
$C_{24}H_{44}O_5$	Butyl Acetyl Ricinoleate
$CH_2CHCO_2C_4H_9$	Butyl Acrylate
$CH_3(CH_2)_3OH$	Butyl Alcohol
$CH_3(CH_2)_2CH_2NH_2$	Butyl Amine [Aminobutane]
$C_6H_5COO(CH_2)_3CH_3$	Butyl Benzoate
$CH_3(CH_2)_2CH_2Br$	Butyl Bromide
$CH_3(CH_2)_2CH_2CO_2C_4H_9$	Butyl Butyrate
$CH_3(CH_2)_3OCH_2CH_2OCH_2CH_2OH$	Butyl Carbitol®
$HOCH_2CH_2OC_4H_9$	Butyl Cellosolve®
$CH_3(CH_2)_3Cl$	Butyl Chloride (Chlorobutane)
$(CH_3(CH_2)_3)_2O$	Butyl Ether [Dibutyl Ether]
$C_{22}H_{42}O_2$	Butyl Oleate
$CH_3(CH_2)_{16}CO_2(CH_2)_3CH_3$	Butyl Stearate
C_4H_8	Butylene [Butene]
$CH_3(CH_2)_2CHO$	Butyraldehyde
$CH_3CH_2CH_2COOH$	Butyric Acid
$(CH_3CH_2CH_2CO)_2O$	Butyric Anhydride
$CH_3CH_2CH_2CN$	Butyronitrile
$Ca(CH_3COO)_2 \cdot H_2O$	Calcium Acetate Hydrate
$Ca(HSO_3)_2$	Calcium Bisulfite
$CaCO_3$	Calcium Carbonate
$Ca(ClO_3)_2$	Calcium Chlorate
$CaCl_2$	Calcium Chloride
$Ca(HS)_2 \cdot 6H_2O$	Calcium Hydrosulfide [Calcium Sulfhydrate]
$Ca(OH)_2$	Calcium Hydroxide [Slaked Lime]
$Ca(OCI)_2$	Calcium Hypochlorite 20% [Calcium Oxichloride]
$Ca(NO_3)_2$	Calcium Nitrate
CaO	Calcium Oxide [Unslaked Lime]
Ca_2SiO_4	Calcium Silicate
$CaSO_4$	Calcium Sulfate [Gypsum]
CaS	Calcium Sulfide
$CaSO_3 \cdot 2H_2O$	Calcium Sulfite
$CH_3(CH_2)_6CH_2OH$	Capryl Alcohol [Octanol]
$CH_3(CH_2)_6COOH$	Caprylic Acid [Octanoic Acid]
H_2NCO_2R	Carbamate
$(NO_2)_3C_6H_2OH$	Carbazotic Acid [Picric Acid]
C_6H_5OH	Carbolic Acid [Phenol]
CS_2	Carbon Bi or Disulfide
CO_2	Carbon Dioxide
CO	Carbon Monoxide
CCl_4	Carbon Tetrachloride
$CH_2 + H_2O$	Carbonic Acid
H_2CO_3	Carbonic Acid [Liquid]
$C_8H_{12}O_5$	Cellulose Acetate
$NaNO_3$	Chile Saltpeter [Sodium Nitrate]

FORMULA	CHEMICAL
$\text{Ca}(\text{ClO})_2$	Chlorinated Lime - 35% Bleach
Cl_2	Chlorine [Anhydrous Liquid]
Cl_2	Chlorine [Dry]
$\text{Cl}_2/\text{H}_2\text{O}$	Chlorine [Wet]
ClO_2	Chlorine Dioxide
ClF_3	Chlorine Trifluoride
CH_2ClCOOH	Chloroacetic Acid [Mono-]
$\text{ClCH}_2\text{COCH}_3$	Chloroacetone [Monochloroacetone]
$\text{C}_6\text{H}_5\text{Cl}$	Chlorobenzene [Monochlorobenzene]
ClCH_2Br	Chlorobromomethane
$\text{C}_4\text{H}_5\text{Cl}$	Chlorobutadiene [Chloroprene]
CHCl_3	Chloroform
ClSO_2OH	Chlorosulfonic Acid
$\text{C}_2\text{H}_2\text{ClF}_3$	Chlorotrifluoroethylene
H_2CrO_4	Chromic Acid
CrCl_3	Chromic Chloride
$\text{Cr}_2(\text{SO}_4)_3$	Chromium Sulfate
$\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2$	Citric Acid
$\text{C}_{10}\text{H}_{12}\text{O}_2$	Clove Oil
$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	Cobalt Chloride
CuCl_2	Copper Chloride
CuCN	Copper Cyanide
$\text{Cu}(\text{NO}_3)_2$	Copper Nitrate
$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	Copper Sulfate [Blue Copperas]
CuS	Copper Sulfide
NaHSO_3	Cream of Tartar [Sodium Bisulfite]
$\text{C}_8\text{H}_{10}\text{O}_2$	Cresylic Acid [Cresol]
$\text{CH}_3\text{CHCHCHO}$	Crotonaldehyde
$\text{C}_6\text{H}_5\text{CH}(\text{CH}_3)_2$	Cumene [Isopropylbenzene]
C_6H_{12}	Cyclohexane
$\text{C}_6\text{H}_{11}\text{OH}$	Cyclohexanol
$\text{C}_6\text{H}_{10}\text{O}$	Cyclohexanone
C_5H_{10}	Cyclopentane
$\text{C}_{10}\text{H}_{14}$	Cymene [Isopropyltoluene]
$(\text{ClC}_6\text{H}_4)_2\text{CHCl}$	DDT
$\text{CH}_3(\text{CH}_2)_8\text{CHO}$	Decanal
$\text{CH}_3(\text{CH}_2)_8\text{CH}_3$	Decane
$\text{C}_{10}\text{H}_{21}\text{OH}$	Decyl Alcohol [Decanol]
$\text{C}_6\text{H}_{12}\text{O}_6$	Dextrose
$(\text{CH}_3)_2\text{C}(\text{OH})\text{CH}_2\text{COCH}_3$	Diacetone [Tyranon]
$(\text{CH}_3)_2\text{COHCH}_2\text{COCH}_3$	Diacetone Alcohol [Diacetone]
$(\text{C}_6\text{H}_5\text{CH}_2)_2\text{O}$	Dibenzyl Ether
$\text{C}_{24}\text{H}_{30}\text{O}_4$	Dibenzyl Sebecate
$\text{C}_{18}\text{H}_{34}\text{O}_4$	Dibenzyl Sebecate [DBS]
$(\text{C}_4\text{H}_9)_2\text{NH}$	Dibutyl Amine
$(\text{C}_4\text{H}_9)_2\text{S}$	Dibutyl Mercaptan
$\text{C}_6\text{H}_4[\text{COO}(\text{CH}_2)_3\text{CH}_3]_2$	Dibutyl Phthalate [DBP]
$\text{C}_6\text{H}_{12}\text{OCl}_2$	Dichloro Isopropyl Ether
Cl_2CHCOOH	Dichloroacetic Acid
$\text{C}_4\text{H}_8\text{Cl}_2$	Dichlorobutane

FORMULA	CHEMICAL
$(\text{ClCH}_2\text{CH}_2)_2\text{O}$	Dichloroethyl Ether
$(\text{C}_6\text{H}_{11})_2\text{NH}$	Dicyclohexylamine
$(\text{HOCH}_2\text{CH}_2)_2\text{NH}$	Diethanol Amine
$(\text{CH}_3\text{CH}_2)_2\text{NH}$	Diethyl Amine
$\text{C}_6\text{H}_4(\text{C}_2\text{H}_5)_2$	Diethyl Benzene
$(\text{C}_2\text{H}_5\text{O})_2\text{CO}$	Diethyl Carbonate
$(\text{CH}_3\text{CH}_2)_2\text{O}$	Diethyl Ether [Ether]
$\text{C}_6\text{H}_4(\text{CO}_2\text{C}_2\text{H}_5)_2$	Diethyl Phthalate [DEP]
$\text{C}_{14}\text{H}_{26}\text{O}_4$	Diethyl Sebecate
$\text{C}_4\text{H}_8\text{O}_2$	Diethylene Ether [Dioxane]
$\text{HOCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OH}$	Diethylene Glycol [DEG]
$(\text{NH}_2\text{C}_2\text{H}_4)_2\text{NH}$	Diethylene Triamine
$\text{C}_4\text{H}_9\text{COC}_4\text{H}_9$	Diisobutyl Ketone
$[\text{HC}=\text{C}(\text{CH}_3)_2]_2$	Diisobutylene
$\text{C}_{26}\text{H}_{50}\text{O}_4$	Diisodecyl Adipate [DIDA]
$\text{C}_{28}\text{H}_{47}\text{O}_4$	Diisodecyl Phthalate [DIDP]
$\text{C}_{22}\text{H}_{42}\text{O}_4$	Diisooctyl Adipate [DIOA]
$\text{C}_{24}\text{H}_{39}\text{O}_4$	Diisooctyl Phthalate [DIOP]
$\text{C}_{26}\text{H}_{46}\text{O}_4$	Diisooctyl Sebecate [DIOS]
$[(\text{CH}_3)_2\text{CH}]_2\text{NH}$	Diisopropyl Amine
$\text{C}_6\text{H}_4\cdot[\text{CH}(\text{CH}_3)_2]_2$	Diisopropyl Benzene
$[(\text{CH}_3)_2\text{CH}]_2\text{CO}$	Diisopropyl Ketone
CH_3OCH_3	Dimethyl Ether
$(\text{CH}_3)_2\text{NNH}_2$	Dimethyl Hydrazine
$\text{C}_6\text{H}_4(\text{CO}_2\text{CH}_3)_2$	Dimethyl Phthalate
$(\text{CH}_3)_2\text{SO}_4$	Dimethyl Sulfate
$(\text{CH}_3)_2\text{S}$	Dimethyl Sulfide
$\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2$	Dinitrotoluene [DNT]
$\text{C}_{24}\text{H}_{38}\text{O}_4$	Diocetyl Phthalate [DOP]
$\text{C}_{26}\text{H}_{50}\text{O}_4$	Diocetyl Sebecate
$\text{C}_{10}\text{H}_{16}$	Dipentene [Limonene]
$\text{C}_6\text{H}_5\text{OC}_6\text{H}_5$	Diphenyl Oxides [Phenyl Ether]
$(\text{C}_3\text{H}_7)_2\text{CO}$	Dipropyl Ketone [Butyrone]
$(\text{CH}_3\text{CH}_2\text{CH}_2)_2\text{NH}$	Dipropylamine
$(\text{C}_3\text{H}_6\text{OH})_2\text{O}$	Dipropylene Glycol
$\text{C}_6\text{H}_4(\text{CH}=\text{CH}_2)_2$	Divinyl Benzene [DVB]
$\text{C}_6\text{H}_5(\text{CH}_2)_{11}\text{CH}_3$	Dodecyl Benzene [Alkane]
$\text{CH}_2\text{OCHCH}_2\text{Cl}$	Epichlorhydrin
$\text{C}_3\text{H}_5\text{ClO}$	Epichlorohydrin
$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	Epsom Salts [Magnesium Sulfate]
C_2H_6	Ethane
$\text{H}_2\text{NCH}_2\text{CH}_2\text{OH}$	Ethanolamine
$(\text{C}_2\text{H}_5)_2\text{O}$	Ether
$\text{CH}_3\text{CH}_2\text{OH}$	Ethyl [Ethanol]
$\text{CH}_3\text{COOC}_2\text{H}_5$	Ethyl Acetate
$\text{CH}_3\text{COCH}_2\text{COOCH}_2\text{CH}_3$	Ethyl Acetoacetate [Acetoacetic Ester]
$\text{CH}_2\text{CHCO}_2\text{CH}_2\text{CH}_3$	Ethyl Acrylate
$\text{CH}_3\text{CH}_2\text{OH}$	Ethyl Alcohol [Ethanol]
$\text{CH}_3\text{CH}_2\text{AlCl}_2$	Ethyl Aluminum Dichloride
$\text{CH}_3\text{CH}_2\text{NH}_2$	Ethyl Amine [Monoethylamine]

FORMULA	CHEMICAL
$\text{CH}_3\text{CH}_2\text{C}_6\text{H}_5$	Ethyl Benzene
$\text{C}_6\text{H}_5\text{CO}_2\text{CH}_2\text{CH}_3$	Ethyl Benzoate
$\text{C}_2\text{H}_5\text{Br}$	Ethyl Bromide
$\text{CH}_3\text{CO}_2\text{CH}_2\text{CH}(\text{C}_2\text{H}_5)_2$	Ethyl Butyl Acetate
$\text{CH}_3\text{CH}(\text{C}_2\text{H}_5)(\text{CH}_2)_2\text{OH}$	Ethyl Butyl Alcohol
$\text{CH}_3\text{CH}_2\text{COC}_4\text{H}_9$	Ethyl Butyl Ketone
$\text{C}_6\text{H}_{12}\text{O}$	Ethyl Butyraldehyde
$\text{CH}_3\text{CH}_2\text{CH}_2\text{CO}_2\text{C}_2\text{H}_5$	Ethyl Butyrate
$\text{CH}_3(\text{CH}_2)_6\text{CO}_2\text{C}_2\text{H}_5$	Ethyl Caprylate
$\text{C}_2\text{H}_5\text{Cl}$	Ethyl Chloride [Chloroethane]
$\text{ClCO}_2\text{C}_2\text{H}_5$	Ethyl Chlorocarbonate [Ethyl Chloroformate]
$\text{C}_2\text{H}_5\text{CN}$	Ethyl Cyanide [Propionitrile]
$\text{HCOOCH}_2\text{CH}_3$	Ethyl Formate
$\text{CH}_3\text{CH}_2\text{I}$	Ethyl Iodide
$(\text{CH}_3)_2\text{CHCOOCH}_2\text{CH}_3$	Ethyl Isobutyrate
$\text{CH}_3\text{CH}_2\text{SH}$	Ethyl Mercaptan [Ethanethiol]
$\text{C}_2\text{H}_5\text{O}_2\text{CCO}_2\text{C}_2\text{H}_5$	Ethyl Oxalate
$\text{C}_2\text{H}_5\text{C}_6\text{Cl}_5$	Ethyl Pentachlorobenzene
$\text{CH}_3\text{CH}_2\text{COOCH}_2\text{CH}_3$	Ethyl Propionate
$\text{CH}_3\text{CH}_2\text{NH}_2$	Ethylamine
$\text{CH}_2\text{OHCH}_2\text{OH}$	Ethylene Alcohol (Glycol)
$(\text{CH}_2)_2\text{O}$	Ethylene Dichloride [Dutch Oil]
$(\text{CH}_2\text{OH})_2$	Ethylene Glycol [Ethylene Alcohol] [Glycol]
$\text{CH}_2\text{C}(\text{CH}_3)\text{COOCH}_3$	Ethylene Oxide
ClCHCCl_2	Ethylene Trichloride [Trichloroethene]
$\text{C}_2\text{H}_4(\text{NH}_2)_2$	Ethylenediamine
$\text{C}_{10}\text{H}_{20}\text{O}_2$	Ethylhexyl Acetate
$\text{C}_8\text{H}_{17}\text{OH}$	Ethylhexyl Alcohol [Ethylhexanol]
CH_3CHCl_2	Ethylidene Chloride
FeCl_3	Ferric Chloride
FeHO_2	Ferric Hydroxide
$\text{Fe}(\text{NO}_3)_3$	Ferric Nitrate
$\text{Fe}_2(\text{SO}_4)_3$	Ferric Sulfate
FeCl_2	Ferrous Chloride
FeSO_4	Ferrous Sulfate
HBF_4	Fluoboric Acid [Boro & Hydro] [Fluoroboric Acid]
FC_6H_5	Fluorobenzene
$\text{F}_x\text{C}_y\text{H}_z$	Fluorolube [Fluorocarbon Oils]
H_2SiF_6	Fluosilicic Acid [Hydro]
H_2SiF_6	Fluosilicic Acid [Sand Acid]
F_2	Fluroine
CH_2O	Formaldehyde [Formalin]
HCONH_2	Formamide
HCOOH	Formic Acid
$\text{HOOCCH}=\text{CHCOOH}$	Fumaric Acid [Boletic Acid]
$\text{C}_4\text{H}_4\text{O}$	Furan [Furfuran]
$\text{C}_5\text{H}_4\text{O}_2$	Furfural [Ant Oil]
$\text{C}_5\text{H}_6\text{O}_2$	Furfuryl Alcohol
$(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{OH}$	Fusel Oil [Grain Oil]
$\text{C}_6\text{H}_2(\text{OH})_3\text{COOH}$	Gallic Acid

FORMULA	CHEMICAL
$C_nJ_{2n+1}COOH$	General Formula for Fatty Acids
$C_{17}H_{26}O_4$	Ginger Oil
$Na_2SO_4 \cdot 10H_2O$	Glauber's Salt [Sodium Sulfate Decahydrate]
$C_6H_{12}O_7$	Gluconic Acid
$C_6H_{12}O_6$	Glucose [Corn Syrup]
$COOH(CH_2)_2CH(NH_2)COOH$	Glutamic Acid
$C_3H_8O_3$	Glycerine, Glycerol
$HOCH_2COOH$	Glycolic Acid
$CaSO_4 \cdot 2H_2O$	Gypsum
D_2O	Heavy water, Deuterium Oxide
He	Helium
$CH_3(CH_2)_5CHO$	Heptanal
C_7H_{16}	Heptane
$CH_3(CH_2)_4CHO$	Hexanal
C_6H_{14}	Hexane
$(CH_3)_2CHCH_2COCH_3$	Hexone [Methyl Isobutyl Ketone]
$CH_3(CH_2)_4CH_2OH$	Hexyl [1-Hexanol]
$C_6H_{12}(OH)_2$	Hexylene Glycol [Brake Fluid]
H_2NNH_2	Hydrazine
HBr	Hydrobromic Acid
HCl	Hydrochloric Acid
HCN	Hydrocyanic Acid [Prussic]
HF	Hydrofluoric Acid [Hydrogen Fluoride]
H_2	Hydrogen
H_2O_2	Hydrogen Peroxide
H_2S	Hydrogen Sulfide [Wet]
$C_6H_4(OH)_2$	Hydroquinone
$HOCH_2COOH$	Hydroxyacetic Acid - 105
HOCl	Hypochlorous Acid
I_2	Iodine
CHI_3	Iodoform
Fe_2O_3	Iron Oxide
$CH_3CO_2CH_2CH_2CH(CH_3)_2$	Isoamyl Acetate
$(CH_3)_2CHCH_2CH_2OH$	Isoamyl Alcohol
$C_9H_{18}O_2$	Isoamyl Butyrate
$(CH_3)_2CHCH_2CH_2Cl$	Isoamyl Chloride
$C_3H_7CH_2OH$	Isobutyl [2-Methyl-1-Propanol]
$CH_3CO_2CH_2CH(CH_3)_2$	Isobutyl Acetate
$(CH_3)_2CHCH_2OH$	Isobutyl Alcohol [Isobutanol]
$(CH_3)_2CHCH_2NH_2$	Isobutyl Amine
$(CH_3)_2CHCH_2Cl$	Isobutyl Chloride
$(CH_3)_2CHCOOH$	Isobutyric Acid
$(CH_3)_2CH(CH_2)_8CH_3$	Isododecane
C_8H_{18}	Isooctane [Trimethylpentane]
$(CH_3)_2CHCH_2CH_3$	Isopentane
$C_9H_{14}O$	Isophorone
$H_3CCH(OH)CH_3$	Isopropyl [2-Propanol]
$CH_3COOCH(CH_3)_2$	Isopropyl Acetate
$CH_3CH(OH)CH_3$	Isopropyl Alcohol [Isopropanol]
$C_3H_7NH_2$	Isopropyl Amine

FORMULA	CHEMICAL
$(\text{CH}_3)_2\text{CHCl}$	Isopropyl Chloride
$(\text{CH}_3)_2\text{CHOCH}(\text{CH}_3)_2$	Isopropyl Ether
$\text{CH}_3\text{CHOH COOH}$	Lactic Acid
$\text{CH}_3\text{CHOHCO}_2\text{C}_{10}\text{H}_7$	Lactol [Aliphatic Naptha Solvent]
$\text{CH}_3(\text{CH}_2)_{10}\text{CH}_2\text{OH}$	Lauryl Alcohol [n-Dodecanol]
$\text{Pb}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot 3\text{H}_2\text{O}$	Lead Acetate [Sugar of Lead]
$\text{Pb}_3(\text{AsO}_4)_2$	Lead Arsenate
PbCl_2	Lead Chloride
$\text{Pb}(\text{NO}_3)_2$	Lead Nitrate
Pb_3O_4 (Also PbO)	Lead Oxide Litharge
$\text{Pb}(\text{C}_2\text{H}_5)_4$	Lead Tetraethyl
$\text{CaS} + \text{CaSO}_4$	Lime Sulfur
CaO	Lime, Soda [Slaked Lime & Soda Ash]
$\text{C}_{10}\text{H}_{16}$	Limonene
$(\text{CH}_3\text{C}_6\text{H}_4\text{O})_3\text{PO}$	Lindol [Tricresyl Phosphate] [TCP]
$\text{C}_{21}\text{H}_{21}\text{O}_4\text{P}$	Lindol [Tritolyl Phosphate]
$\text{C}_{18}\text{H}_{32}\text{O}_2$	Linoleic Acid
LiBr	Lithium Bromide
KOH	Lye [Potassium Hydroxide]
MgCO_3	Magnesium Carbonate
$\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$	Magnesium Chloride
$\text{Mg}(\text{OH})_2$	Magnesium Hydroxide [Milk of Magnesia]
$\text{Mg}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	Magnesium Nitrate
MgO	Magnesium Oxide
MgSO_4	Magnesium Sulfate [Epsom Salts]
$(\text{CHCOOH})_2$	Maleic Acid
$\text{C}_4\text{H}_6\text{O}_5$	Maleic Acid [Apple Acid]
$\text{C}_4\text{H}_2\text{O}_3$	Maleic Anhydride
HgCl_2	Mercuric Chloride
$\text{Hg}(\text{CN})_2$	Mercuric Cyanide
$\text{Hg}_2(\text{NO}_3)_2 \cdot 2\text{H}_2\text{O}$	Mercurous Nitrate
Hg	Mercury
$(\text{CH}_3)_2\text{C}=\text{CHCOCH}_3$	Merityl Oxide
CH_4	Methane
CH_3OH	Methanol [Methyl Alcohol]
$\text{CH}_3\text{CO}_2\text{CH}_3$	Methyl Acetate
$\text{CH}_3\text{COCH}_2\text{COOCH}_3$	Methyl Acetoacetate
$\text{CH}_2\text{CHCO}_2\text{CH}_3$	Methyl Acrylate
$\text{CH}_3(\text{CH})_2\text{COOH}$	Methyl Acrylic Acid [Crotonic Acid]
CH_3OH	Methyl Alcohol [Methanol]
CH_3NH_2	Methyl Amine [Monomethylamine]
$\text{C}_8\text{H}_{16}\text{O}_2$	Methyl Amyl Acetate
$\text{C}_6\text{H}_{13}\text{OH}$	Methyl Amyl Alcohol
$\text{C}_6\text{H}_5\text{NH}(\text{CH}_3)$	Methyl Aniline
CH_3Br	Methyl Bromide [Bromo Methane]
$\text{CH}_3\text{COC}_4\text{H}_9$	Methyl Butyl Ketone [2-hexanone]
$\text{CH}_3(\text{CH}_2)_2\text{CO}_2\text{CH}_3$	Methyl Butyrate
CH_3Cl	Methyl Chloride
C_6H_{12}	Methyl Cyclopentane
CH_2Cl_2	Methyl Dichloride

FORMULA	CHEMICAL
$\text{CH}_3\text{COC}_2\text{H}_5$	Methyl Ethyl Ketone (MEK)
HCOOCH_3	Methyl Formate
C_7H_{16}	Methyl Hexane
CH_3I	Methyl Iodide
$(\text{CH}_3)_2\text{CHCH}_2\text{COCH}_3$	Methyl Isobutyl Ketone [Hexone]
$\text{CH}_3\text{COCH}(\text{CH}_3)_2$	Methyl Isopropyl Ketone
$\text{CH}_2\text{C}(\text{CH}_3)\text{CO}_2\text{CH}_3$	Methyl Methacrylate
$\text{C}_2\text{H}_6\text{O}_2$	Methyl Methacrylate Slurry
$\text{C}_{19}\text{H}_{36}\text{O}_2$	Methyl Oleate
$\text{CH}_3\text{CH}_2\text{CH}_2\text{COCH}_3$	Methyl Propyl Ketone
$\text{HOC}_6\text{H}_4\text{COOCH}_3$	Methyl Salicylate [Betula Oil]
$\text{CH}_3\text{CH}_2\text{COOH}$	Methylacetic Acid [Propionic Acid]
$\text{CH}_3\text{CHCHCO}_2\text{H}$	Methylacrylic Acid
CH_3NH_2	Methylamine
CH_2Br_2	Methylene Bromide
CH_2Cl_2	Methylene Chloride
$\text{H}_2\text{SO}_4 + \text{HNO}_3$	Mixed Acids [Sulfuric & Nitric]
$\text{C}_6\text{H}_5\text{Cl}$	Monochlorobenzene
$\text{NH}_2\text{C}_2\text{H}_4\text{OH}$	Monoethanolamine
$\text{HCON}(\text{CH}_3)_2$	N,N-Dimethyl Formamide [DMF]
$\text{C}_6\text{H}_5\text{N}(\text{CH}_3)_2$	N,N-Dimethylaniline
$\text{CH}_3(\text{CH}_2)_4\text{NH}_2$	n-Amyl Amine [1-Aminopentane]
C_{10}H_8	Naphthalene [Tar Camphor]
$\text{C}_{11}\text{H}_8\text{O}_2$	Naphthoic Acid
C_6H_{14}	Neohexane [2,2-Dimethylbutane]
$\text{Ni}(\text{CH}_3\text{CO}_2)_2$	Nickel Acetate
NiCl_2	Nickel Chloride
$\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	Nickel Nitrate
NiSO_4	Nickel Sulfate
HNO_3	Nitric Acid
$\text{C}_6\text{H}_5\text{NO}_2$	Nitrobenzene
$\text{C}_6\text{H}_7\text{O}_5(\text{NO}_2)_3$	Nitrocellulose
$\text{C}_2\text{H}_5\text{NO}_2$	Nitroethane
N_2	Nitrogen
N_2O_4	Nitrogen Tetroxide
$\text{CH}_2\text{NO}_3\text{CHNO}_3\text{CH}_2\text{NO}_3$	Nitroglycerine or Trinitro
CH_3NO_2	Nitromethane
$\text{C}_6\text{H}_5\text{NH}(\text{CH}_3)$	N-Methyl Aniline
C_8H_{18}	n-Octane
$\text{CH}_3(\text{CH}_2)_2\text{NO}_3$	NPN [n-Propyl Nitrate]
$\text{CH}_3\text{COO}(\text{CH}_2)_2\text{CH}_3$	n-Propyl Acetate
C_7Cl_8	Octachlorotoluene
$\text{CH}_3(\text{CH}_2)_{16}\text{CH}_3$	Octadecane
$\text{CH}_3(\text{CH}_2)_7\text{OH}$	Octyl [Caprylic Alcohol]
$\text{CH}_3\text{COO}(\text{CH}_2)_7\text{CH}_3$	Octyl Acetate
$\text{C}_6\text{H}_4\text{Cl}_2$	o-Dichlorobenzene
$\text{C}_{18}\text{H}_{34}\text{O}_2$	Oleic Acid [Red Oil]
$\text{C}_{57}\text{H}_{104}\text{O}_6$	Olein[Triolene]
$\text{H}_2\text{SO}_4/\text{SO}_3$	Oleum [Fuming Sulfuric Acid]
$\text{HOOC}\text{COOH} \cdot 2\text{H}_2\text{O}$	Oxalic Acid

FORMULA	CHEMICAL
O ₂	Oxygen
O ₃	Ozone
CH ₃ (CH ₂) ₁₄ COOH	Palmitic Acid
(CH ₂ O) _n	Paraformaldehyde
C ₆ H ₁₂ O ₃	Paraldehyde
C ₆ Cl ₅ OH	PCP [Pentachlorophenol]
Cl ₂ CHCCl ₃	Pentachloroethane [Pentalin]
NaS	Pentahydrate [Sodium Sulfide]
C ₅ H ₁₂	Pentane [Amyl Hydride]
C ₂ Cl ₄	Perchlorethylene
HClO ₄	Perchloric Acid
C ₆ H ₅ (CH ₂) ₂ OH	Phenethyl Alcohol [Benzyl Carbinol]
C ₆ H ₅ OC ₂ H ₅	Phenetole [Phenyl Ethyl Ether]
C ₆ H ₅ OH	Phenol [Carbolic Acid]
C ₆ H ₄ (OH)SO ₃ H	Phenol Sulfonic Acid
CH ₃ COOC ₆ H ₅	Phenyl Acetate
C ₆ H ₅ OC ₂ H ₅	Phenyl Ethyl Ether [Phenetole]
C ₆ H ₅ NHNH ₂	Phenyl Hydrazine
C ₆ H ₅	Phenylbenzene
C ₉ H ₁₄ O	Phorone [Diisopropylidene Acetone]
H ₃ PO ₄	Phosphoric Acid
POC ₁	Phosphorous Oxychloride
PCl ₃	Phosphorous Trichloride
POCl ₃	Phosphorus Oxychloride
C ₆ H ₄ (CO) ₂ O	Phthalic Anhydride
(NO ₂) ₃ C ₆ H ₂ OH	Picric Acid [Carbazotic Acid]
C ₁₀ H ₁₆	Pinene
C ₅ H ₁₁ N	Piperidine
CH ₃ CO ₂ K	Potassium acetate
AlK(SO ₄) ₂ 12H ₂ O	Potassium Alum
KHCO ₃	Potassium Bicarbonate
KHSO ₄	Potassium Bisulfate
KHSO ₃	Potassium Bisulfite
KBr	Potassium Bromide
K ₂ CO ₃	Potassium Carbonate [Potash]
KClO ₃	Potassium Chlorate
KCl	Potassium Chloride
K ₂ CrO ₄	Potassium Chromate
K ₃ [Cu(CN) ₄]	Potassium Copper Cyanide
KCN	Potassium Cyanide
K ₂ Cr ₂ O ₇	Potassium Dichromate
KOH	Potassium Hydroxide [Caustic Potash] [Lye]
KOCl	Potassium Hypochlorite
KI	Potassium Iodide
KNO ₃	Potassium Nitrate
KNO ₂	Potassium Nitrite
KClO ₄	Potassium Perchlorate
KMnO ₄	Potassium Permanganate [Purple Salt]
KH ₂ PO ₄	Potassium Phosphate [Mono]
K ₂ Si ₂ O ₅	Potassium Silicate

FORMULA	CHEMICAL
K_2SO_4	Potassium Sulfate
K_2S	Potassium Sulfide
$K_2SO_3 \cdot 2H_2O$	Potassium Sulfite
C_3H_8	Propane
C_2H_5CHO	Propionaldehyde [Propanal]
CH_3CH_2COOH	Propionic Acid
$CH_3CH_2CO_2H$	Propionioc Acid [Methylacetic Acid]
$CH_3CH_2CH_2OH$	Propyl [Propanol]
C_3H_6	Propylene
$CH_3CH(Cl)CH_2Cl$	Propylene Dichloride
$C_3H_6(OH)_2$	Propylene Glycol [Methyl Glycol]
C_3H_6O	Propylene Oxide
$(-CH_2CHCl-)_n$	PVC
C_5H_5N	Pyridine
C_4H_5N	Pyrrole [Azole]
$NH_4(X)$	Quaternary Ammonium Salts
$C_{18}H_{34}O_2$	Red Oil [Oleic Acid]
$C_{20}H_{30}O_2$	Rosin
$C_{23}H_{22}O_6$	Rotenone
$(C_5H_8)_n/H_2O$	Rubber Latex Emulsions
NH_4Cl	Sal Ammoniac [Ammonium Chloride]
$NaCO_3$	Sal Soda [Sodium Carbonate]
HOC_6H_4COOH	Salicylic Acid
$NaCl/H_2O$	Salt Water [Brine]
SiO_2	Silica
$Si(OR)_4$	Silicate Esters
$SiCl_4$	Silicon Tetrachloride
$[(CH_3)_2SiO_2]_n$	Silicone Oils
$AgCl$	Silver Chloride
$AgCN$	Silver Cyanide
AgI	Silver Iodide
$AgNO_3$	Silver Nitrate
CH_3COONa	Sodium Acetate
$Na_2Al_2O_4$	Sodium Aluminate
$C_6H_5SO_3Na$	Sodium Benzene Sulfonate
$NaHCO_3$	Sodium Bicarbonate [Baking Soda]
$Na_2Cr_2O_7 \cdot 2H_2O$	Sodium Bichromate [Sodium Dichromate]
$NaHSO_3$	Sodium Bisulfite [Cream of Tartar]
$NaHSO_4$	Sodium Bisulfite [Niter Cake]
$Na_2B_4O_7$	Sodium Borate
$NaBr$	Sodium Bromide
$NaCO_3$	Sodium Carbonate [Sal Soda]
Na_2CO_3	Sodium Carbonate [Soda Ash]
$NaClO_3$	Sodium Chlorate
$NaCl$	Sodium Chloride
$CrH_2O_4 \cdot 2Na$	Sodium Chromate
$NaCN$	Sodium Cyanide
$Na_2Cr_2O_7 \cdot 2H_2O$	Sodium Dichromate [Sodium Bichromate]
Na_2O_2	Sodium Dioxide [Sodium Peroxide]
NaF	Sodium Fluoride

FORMULA	CHEMICAL
$C_5H_8NO_4Na.$	Sodium Glutamate (MSG)
$(NaPO_3)_6$	Sodium Hexametaphosphate [Calgon]
NaOH	Sodium Hydroxide [Caustic]
Na(OCI)	Sodium Hypochlorite
$Na(PO_3)H$	Sodium Metaphosphate [Kurrol's Salt]
Na_2SiO_3	Sodium Metasilicate
$NaNO_3$	Sodium Nitrate [Chile Saltpeter]
$NaNO_2$	Sodium Nitrite
$NaBO_3 \cdot H_2O$	Sodium Perborate (Mono)
$NaBO_3 \cdot 4H_2O$	Sodium Perborate (Tetrahydrate)
Na_2O_2	Sodium Peroxide [Sodium Dioxide]
$Na_2S_2O_8$	Sodium Persulfate
NaH_2PO_4	Sodium Phosphate (Mono)
$Na_2O \cdot SiO_2$	Sodium Silicates [Water Glass]
Na_2SiF_6	Sodium Silicofluoride
$C_{17}H_{35}COONa$	Sodium Stearate
Na_2SO_4	Sodium Sulfate [Salt Cake] [Thenardite]
Na_2S	Sodium Sulfide [Pentahydrate]
Na_2SO_3	Sodium Sulfite
$Na_2B_4O_7 \cdot 10H_2O$	Sodium Tetraborate
$Na_2O_3S_2$	Sodium Thiosulfate [Hypo] [Antichlor]
$CH_3(CH)_4COOH$	Sorbic Acid
$SnCl_4$	Stannic Chloride [Tin Chloride]
SnF_2	Stannous Fluoride [Tin Salt]
$(C_6H_{10}O_5)_x$	Starch
$CH_3(CH_2)_{16}COOH$	Stearic Acid
$C_6H_5CHCH_2$	Styrene [Vinylbenzene]
H_2NSO_3H	Sulfamic Acid
S_2Cl_2	Sulfur Chloride
SF_6	Sulfur Hexafluoride
SO_3	Sulfur Trioxide
H_2SO_4	Sulfuric Acid
H_2SO_3	Sulfurous Acid
S	Sulphur
SO_2	Sulphur Dioxide
$Mg_3S_{14}O_{10}(OH)_2$	Talc Slurry
$C_{76}H_{52}O_{46}$	Tannic Acid
$HOOCCH(OH)CH(OH)COOH$	Tartaric Acid
$(CH_3C_6H_4O)_3PO$	TCP [Lindol] [Tricresyl Phosphate]
$C_{10}H_{18}O$	Terpineol [Terpilenol]
$C_4H_{10}S$	Tertiary Butyl Mercaptan
$(CH_3)_3COH$	Tertiary Butyl Alcohol
$C_9H_{14}O_2$	Tertiary Butyl Catechol
CBr_4	Tetra Bromomethane
$Ti(C_4H_9)$	Tetrabutyl Titanate
$(Cl_2FC)_2$	Tetrachlorodifluoroethane
$(Cl_2HC)_2$	Tetrachloroethane [Acetylene Tetrachloride]
$Cl_2C=CCl_2$	Tetrachloroethylene
$Pb(C_2H_5)_4$	Tetraethyl Lead
$HOCH_2(CH_2OCH_2)_3CH_2OH$	Tetraethylene Glycol [TEG]

FORMULA	CHEMICAL
$C_4H_8O_2$	Tetrahydrofuran [THF]
$C_{10}H_{12}$	Tetrahydronaphthalene [Tetralin]
$CH_2SH\ COOH$	Thioglycolic Acid
$SOCl_2$	Thionyl Chloride
C_4H_4S	Thiophene
TiO_2	Titanium Dioxide
$TiCl_4$	Titanium Tetrachloride
$C_6H_5CH_3$	Toluene
C_7H_8	Toluene [Toluol]
$CH_3C_6H_3(NCO)_2$	Toluene Diisocyanate
$CH_3C_6H_4NH_2$	Toluidine
$C_3H_5(OCOCH_3)_3$	Triacetin
$P(OC_3H_5)_3$	Triallyl Phosphate
$(C_4H_9O)_3P(C_2H_5)$	Tributoxyl Ethyl Phosphate
$(C_4H_9)_3PO_4$	Tributyl Phosphate [TBP]
CCl_3COOH	Trichloroacetic Acid [TCA]
$C_6H_3Cl_3$	Trichlorobenzenes
$C_2H_3Cl_3$	Trichloroethane
C_2HCl_3	Trichloroethylene
$CH_2ClCHClCH_2Cl$	Trichloropropane
$(CH_3C_6H_4O)_3PO$	Tricresyl Phosphate [Lindol] [TCP]
$C_{12}H_{25}CH_2OH$	Tridecyl Alcohol [Tridecanol]
$N(C_2H_4OH)_3$	Triethanol Amine [TEA]
$(CH_2OHCH_2)_3N$	Triethanolamine
$Al(C_2H_5)_3$	Triethyl Aluminum [ATE]
$(CH_3CH_2)_3N$	Triethyl Amine
$(C_2H_5)_3B$	Triethyl Borane
$HOCH_2CH_2OCH_2CH_2OCH_2CH_2OH$	Triethylene Glycol [TEG]
$HO(CH_2)_3OH$	Trimethylene Glycol
$CH_3C_6H_2(NO_2)_3$	Trinitrotoluene [TNT]
$(C_8H_{17}O)_3PO$	Trioctyl Phosphate
$C_{10}H_{16}$	Turpentine
$CO(NH_2)_2$	Urea
$CH_3(CH_2)_3COOH$	Valeric Acid
$C_6H_3(CHO)(OCH_3)(OH)$	Vanilla Extract (Vanillin)
$CH_3COOCHCH_2$	Vinyl Acetate
CH_2CHCl	Vinyl Chloride [Chloroethylene]
CH_2CHCl	Vinyl Chloride Monomer
$C_6H_5CHCH_2$	Vinylbenzene [Styrene]
H_2O	Water
$C_6H_4(CH_3)_2$	Xylene
$(CH_3)_2C_6H_3NH_2$	Xylidines [Zylidin]
$Zn(CH_3COO)_2 \cdot 2H_2O$	Zinc Acetate
$ZnCO_3$	Zinc Carbonate
$ZnCl_2$	Zinc Chloride
$ZnHSO_3$	Zinc Hydrosulfite
ZnO	Zinc Oxide
$ZnSO_4 \cdot 7H_2O$	Zinc Sulfate
ZnS	Zinc Sulfide

计量泵附件节省\$\$\$\$

通过设计预防不安全和低效率的系统

ACCUDRAW 标定柱



PVC 玻璃 PP

- PVC, 玻璃, PP 材料;
- 透明的, 抵抗化学腐蚀;
- 彩色的刻度和文字;
- 螺纹或光孔连接;
- 标准容积从 100 毫升到 20,000 毫升。

可以按客户要求制作其他材料或容积的标定柱。

TOP VALVE 背压阀/安全阀



- 超长寿命隔膜;
- 压力范围 0 – 150 PSIG (0-10.5 公斤/平方厘米);
- 空气释放, 压力表接口可选;
- 材料: PVC, CPVC, PVDF, Teflon, PP, 不锈钢, 20# 合金和哈氏合金 C;
- 7 种尺寸: 1/4" – 2" NPT 螺纹
- 阀门大小以手柄的颜色标明。

专门设计专门设计用于增强计量泵的精准和安全。

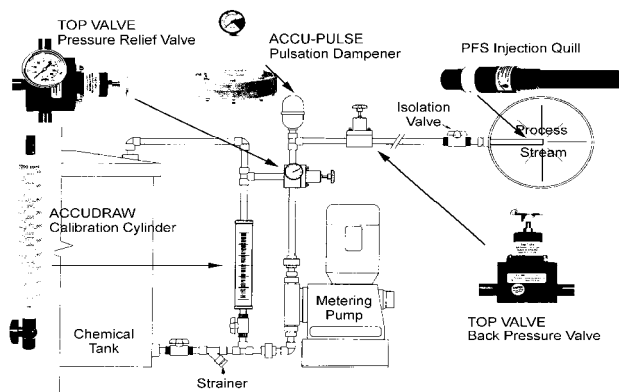
ACCU-PULSE 脉冲阻尼器



设计用于去除容积式泵产生的脉动流

- 增加系统的效率和泵的寿命;
- 减少维护和成本;
- 保护管道, 仪表, 阀门和仪器 (因为脉冲和振动);
- 确保仪表的精准、长寿和可重复性;
- 防止泡沫和泼洒;
- 材料和大小具有多样的选择;
- 重量轻, 紧凑的设计。

典型的计量泵系统



我们的网站有 Auto CAD 图纸
敬请浏览 www.primaryfluid.com

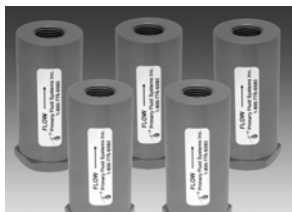
PFS 注射阀



设计用于将化学溶液注射到工业液流的中心

- 在管道里提供了一个更同源的混合;
 - 内置控制, 防止虹吸;
 - 两种长度: 6" 和 8" ;
 - 1/2" 或 3/4" NPT, BPST 螺纹或法兰连接;
 - 材料: PVC, CPVC, PVDF, PP, 不锈钢, 哈氏合金 C 或钛合金;
 - 压力范围: 0-3000 PSIG (211 公斤/平方厘米);
 - 温度范围: 260°C (500°F)。
- 可以按客户要求制作其他材料或尺寸的注射阀。

Accu-排气阀



设计用于自动排除气体或蒸汽。

- 排除次氯酸钠, 硫酸和过氧化氢产生的气体或蒸汽;
- CPVC (Corzan) 和 Viton 抗腐蚀浸润材料结构设计;
- 特别设计的在系统启动和在工作压力下的浮动材料自动排气阀;
- 标准 1/2" NPT 螺纹连接或可选的 3/4" NPT 螺纹连接;
- 其他材料可选。

PFS 总管线注入阀



设计用于将化学溶液注射到工业液流的中心。

- 隔离阀允许轻松维护;
 - 六种材料可供选择;
 - 浸润零件有和注射棒相当的或更好的抗化学腐蚀性能;
 - 标准的长度和可以根据客户要求的长度; • NPT 螺纹, 公制螺纹或法兰连接选择。
- 可以按客户要求制作其他材料或尺寸的总线注入阀。



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