



Chemical Resistance Recommendations

Filtermat Belgium Winninglaan 17, B-9140 Temse Tel +32-3-710.65.50 Fax +32-3-710.65.58 info@filtermat.be www.filtermat.be				SP Grav	Polypropylene	Polyester	Polyamide	Aramid (Nomex)	Wool	Cotton	Viscose/Phenolic	NBR	EPDM	PTFE	Silicone	FPM (Viton)	SS-316	SS-304	CST	Hastelloy C4	SAN	PVC	CPVC	E-CTFE (HALAR)	PVDF	
Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																								
Acetaldehyde	CH3CHO		50	60						A	A	X	C	175	C	X	A	A	C	A			X	X	B	
Acetaldehyde, Aqueous			50	60	C							X		175		X	A	A	C			X	X		A	
Acetamide	CH3CONH2		50	60	90	90	20								X	95	A	A	B					A	A	
Acetate Solvents, Crude			X									X		175			A	A	B			X	X			
Acetate Solvents, Pure			X									X		175			A	A	B			X	X			
Acetic Acid, 10%	CH3COOH		60	95						40	40	X		175		80	A	A	X	A		60	60	100		
Acetic Acid, 20%	CH3COOH		60	95						40	40	X		175		80	A	A	X	A		60	60	100		
Acetic Acid, 30%	CH3COOH		60	95							C			175		80	A	A	X	A		60	60	100		
Acetic Acid, 5%	CH3COOH		60	95	90	90	20			40	40		A	175	X		A	A	X	A		60	60		A	
Acetic Acid, 50%	CH3COOH		40	40						C	C	X	A	175		80	A	A	X	A		40	40	100		
Acetic Acid, 50% boiling										X	X									A				100		
Acetic Acid, 60%	CH3COOH		40	40							C	X		175		80	A	A	X	A		20	20	100		
Acetic Acid, 80%	CH3COOH		20	20						C	C	X	C	175		80	A	A	X	A		X	X	150		
Acetic Acid, 80% boiling										X	X									A				A		
Acetic Acid, Glacial, 100%	CH3COOH			20						X			C	175			B	B	X	A		X	X			
Acetic Anhydride	(CH3CO)2O									X	X	X	C		C	X	B	B	X	A		X		20		
Acetic Ether (Ethyl Acetate)	CH3COOC2H5		50	20								X	C	100	C	X	A	A	B			X	X			
Acetone	CH3COCH3	0.8	60	150	20	60	60	A	C	X	A	175	X	X	A	A	A	A	A		X	X	50	A		
Acetonitrile (Methyl Cyanide)	CH3C N		20	20								X		175		X	A	A				X	X	100		
Acetophenone	C6H5COCH3		20									X	A		X	X	A	A				X	X	50		
Acetyl Acetone	CH3COCH2COCH3											X				X	A	A				X	X			
Acetyl Chloride	CH3COCl		40									X	X	95	X	X	A	A		A		X	X	50		
Acetyl Oxide (Acetic Anhydride)	(CH3CO)2O											X	C		C	X	B	B	X							
Acetyl Propane	CH3COC3H9		X																			X	X			
Acetylene (Ethyne)	HC CH		20	65						65	65	95	A	120	C	95	A	A	A			X	X	50		
Acid Mine Water			65											175									40	65		
Acrylic Acid	CH2CHCOOH		X										C	50								X	X			
Acrylonitrile	H2CCHCN		20	20	20	20	20	A	A	X	X	175			X	A	A		B		X	X	20			
Adipic Acid Aqueous	HOOC(CH2)4COOH		80							5/55		80		175		120	B	B	C			60	80			
Adipic Acid Aqueous <5%											60															
Alcohol, Allyl	CH2CHCH2OH		40									80		120		95	A	A	B			X	X			
Alcohol, Amyl	C5H11OH	0.82	50	20								60	A	205	X	85	A	A	B			40	40	150		
Alcohol, Benzyl	C6H5CH2OH		60									X		205		60	A	A	B			X	X	150		
Alcohol, Butyl (Butanol)	C4H9OH		80	20								60		120		40	A	A	B			60	80			
Alcohol, Diacetone	(CH3)2C(OH)CH2COCH3											X		175		X	A	A	B			X	X	50		
Alcohol, Ethyl (Ethanol)	C2H5OH		80	150								80	A	150	A	80	A	A	A			60	60	150		
Alcohol, Hexyl (Hexanol)	C6H13OH		20									60		120		120	A	A	A			60	85	20		
Alcohol, Isobutyl	(CH3)2CHCH2OH	0.81										20		150		60	A	A		A						
Alcohol, Isobutyl (Isobutanol)	(CH3)2CHCH2OH	0.81										20		150		60	A	A								
Alcohol, Isopropyl (Isopropanol)	(CH3)2CHOH	0.78	65	20								20	A	150	A	95	A	A	C			60	60	150		
Alcohol, Methyl (Methanol)	CH3OH	0.8	80	150								60		150		40	A	A	A			60	100	150		
Alcohol, Octyl																										


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Chemical Name				Formula																																							
A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150= max. operating temperature																																											
Alcohol, Poylvinyl	[-CH2CH(OH)-]x																				40	280	100	A	A														60	60			
Alcohol, Tert-Butyl	(CH3)2COHCH3																				X	120	20																20	20			
Alkanes	CnH(2nt2)																				60	150	100	A	A														60	80			
Allyl Bromide	C3H5Br																																							X	X		
Allyl Chloride	C3H5Cl																					175	40	A	A															X	X	150	
Alum (Aluminum Potassium Sulfate)	AlK(SO4)2																				80		95			120	95	A	A	A									60	80	150		
Alum, Ammonium																					95							80														150	
Aluminum, Acetate	Al(C2H3O2)3																				40					85	80												40	40			
Aluminum, Ammonium Sulfate	Al2(SO4)3(NH4)2																				95							60	A							X							
Aluminum, Bromide	AlBr3																										60																
Aluminum, Chloride	AlCl3																				50	A	A				55	95	A	100	C	80	C	X		A		60	50	150	A		
Aluminum, Chloride 20%																										55	55										A						
Aluminum, Fluoride	AlF3																					X					A	A	95	A		C	80	C	X	X	B				150		
Aluminum, Formate	Al(HCOO)3																				80							80		280		120		B				60	80				
Aluminum, Hydroxide	Al(OH)3																				80					A	A	80		120		80	A	A	X	B		60	80	150			
Aluminum, Nitrate	Al(NO3)3																				80					65	65	95	A	100	C	95	A			X		60	80	150			
Aluminum, Potassium Sulfate 10%																																					C						
Aluminum, Potassium Sulfate 40%	AlK(SO4)2																				80							95		120		95	A	A	A	C		60	80				
Aluminum, Sulfate	Al2(SO4)3																				80	A	A				A	95	A	120	A		B	B	X	B		60	80	150	A		
Amines																																					C						
Amines, 10%																					80													A	A								
Amino Acids																										65	65																
Aminoethanolamin																										A	A																
Ammonia, 15%	NH3																				80					X		60		120		20	A	A	C	A		60	80				
Ammonia, 25%	NH3																				80					X				120			A	A	C			60	80				
Ammonia, 99%	NH3																				40					X				120		X	A	A	C			X	X				
Ammonia, Anhydrous	NH3																									40	40	80						A	A	C	B						
Ammonia, Dry Gas	NH3																				50						X			60	C	150	A					60	60				
Ammonia, liquid																										X											A					A	
Ammonium Acetate	NH4(C2H3O2)																				80									175		X	B	B	X			60	80	50			
Ammonium Bromide 10%																																											
Ammonium, Alum (Aluminum, Ammonium Sulfate)	Al2(SO4)3(NH4)2																				95							60	A			80				X							
Ammonium, Bicarbonate																										A	A																
Ammonium, Bichromate	(NH4)2Cr2O7																											40				20						20					
Ammonium, Bifluoride	NH4HF2																				80							80		150		60	A	A		B		60	80	150			
Ammonium, Bisulfide	NH4HS																											80		150									60	80	150		
Ammonium, Carbonate	NH4HCO3																				95					A	A	95	A	120		95	A	A	X	B		60	80	150			
Ammonium, Carbonate 10%																												A															
Ammonium, Chloride	NH4Cl																				80	20	X	X	20	40		80	A	120		220	B	B		A		60	80	150	A		
Ammonium, Chloride 10%																											40														150		
Ammonium, Dichromate	(NH4)2Cr2O7																											40				20						20		120			
Ammonium, Fluoride, 10%	NH4F																				80							40	A			60						40		150			


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																									
Ammonium, Fluoride, 20%	NH4F		80									40				60									150		
Ammonium, Fluoride, 25%	NH4F											40				60									X	150	
Ammonium, Hydroxide	NH4OH		80	20								95	A	120	A	80	A	A	C	B					60	50	
Ammonium, Hydroxide 30%			65	20	90	90		C	40	40				A												150	A
Ammonium, Hyposulfite 10%																											
Ammonium, Metaphosphate												95				80									60	80	150
Ammonium, Nitrate	NH4NO3		80	20	X	X	20	40	40	80	A	120			80	A	A	C	B					60	80	150	A
Ammonium, Oxalate	(NH4)2C2O4															B	B	X	A								A
Ammonium, Persulfate	(NH4)2S2O8		X									X			X	A	A		B					60	65	50	
Ammonium, Phosphate, Dibasic	(NH4)2HPO4		80									40		150		80	A	A		B				60	80		
Ammonium, Phosphate, Monobasic	NH4H2PO4		80	20						C	C	40	A	120	A	80	A	A	X	B				60	80	A	
Ammonium, Phosphate, Tribasic	(NH4)3PO4		80									40				85	A	A		B				60	80		
Ammonium, Sulfate	(NH4)2SO4		80	20	X	X	20	C	C	60	A	A	A		80	B	B		B					60	80	150	A
Ammonium, Sulfide	(NH4)2S											60				B	B	X						20	20	150	
Ammonium, Thiocyanate	NH4SCN			20					A	A	20	A				A	A	X						60	80		
Ammonium, Thiosulfate	(NH4)2S2O3	0.86	65		X	X	X							A		A	A							60	80		A
Ammonium, Thiosulfate 10%	(NH4)2S2O3		65		X	X	X							A													A
Amyl Acetate	CH3COOC5H11	0.86	20	A	A			A		X	A	A		X	A	A	A	X	A				X	X	50	A	
Amyl Alcohol (Alcohol, Amyl)	C5H11OH	0.82	65	20	20	20	65	A	A	60	A	205	X		85	A	A	B	A				40	40		A	
Amyl Bromate			20									20			X												
Amyl Chloride			X									X				20	B	B		A25			X	X	150		
Aniline	C6H5NH2		80	20	20	20	20	C	C	X	C	A	X		60	A	A	X	B				X	X	100	C	
Aniline Hydrochloride	C6H5NH2HCl														80	X	X	X					X	X			
Animal Fats			65	65	X	X	90	A	A					A													A
Anthraquinone	C6H4(CO2)C2H4															80										50	
Antichlor																B	B	C									
Anti-Freeze (Ethylene Glycol)	CH2OHCH2OH		80	150								80	A		A	120	A	A	B					60	80		
Antimony Chloride																										25	
Antimony Trichloride	SbCl3		80									60				85	A	A						60		20	
Apple Juice			80									95		175		100	A	A	X								
Aqua Regia	80%HCl/20% HNO3		20	X	X			X	X	X	X	A	X	X	60	C	X	X	C				X	X	100	C	
Arochlor 1248																				A							
Aromatic Hydrocarbons			20									X				B	B						X	X			
Arsenic Acid	H3AsP4		60	X				X	X	70	A			A	100	A	A		B				40	60	150		
Asphalt			60	20				A	A	20	C			X	80	A	A	A					X	X			
Aviation Fuel			X	20	20	20	20					65	X	A		70											A
Aviation Turbine Fuel														120													
Baking Soda (Sodium Bicarbonate)	NaHCO3		80	20								80	A	205	A	150	A	A						60	85		
Barium Carbonate	BaCO3		80						A	A	50	A			120	B	B	X					60	80	150		
Barium Chloride	BaCl2		80	A	A				100	A	80			A	150	B	B	X	B				60	80	150	A	
Barium Cyanide	Ba(CN)2															B	B	X	B								
Barium Hydroxide	Ba(OH)2		80						A	A	80				120	A	A	X	B				60	80	150		


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																								
Barium Nitrate	Ba(NO3)2		80									80				150	A	A						60	80	150
Barium Sulfate	BaSO4		80									40		150		95	A	A	X	A				60	80	150
Barium Sulfide	BaS		80									X		150		120	A	A	X				60	80	150	
Beer			80	X						A	X	20	A	150	A	95	A	A	X	A25			60	80	150	
Beet Sugar Liquid			80							A	A						A	A	A						150	
Beet Sugar Liquors			80								A	80	A		A	80	B	B	C				40	65	150	
Benzaldehyde	C6H5CHO		X	A	C								40				A	A	A	A			X	X	A	A
Benzene	C6H6		X	20						A	A	150	B	120	60	X	A	A	A	B			X	X	50	
Benzene Sulfonic Acid, 10%	C6H5SO3H		X							A						60							X	X	50	
Benzene Sulforic Acid			X														C	C	X				X	X		
Benzoic Acid	C6H5COOH		A	A	X						A	60		A		80	B	B	X	B25			60	60	120	A
Benzol																				B						
Benzyl Alcohol (Alcohol, Benzyl)	C6H5CH2OH		60									X		205		60	A	A	B	A			X	X		
Benzyl Amine																										
Benzyl Benzoate	C6H5COOCH2C6H5											X				40		B	C							
Benzyl Chloride	C6H5CH2Cl		20									X		150		95			X							
Beryllium Carbonate																										
Bismuth Carbonate	(BiO)2CO3		80											150		80							60	80	150	
Bismuth Hydroxide										A	A															
Bismuth Subcarbonate										A	A															
Black Liquor			50									80				80							60	85	150	
Bleach (Sodium Hypochlorite)	NaOCl		65	20								X	A	150	C	85	A	A					60	85		
Borax (Sodium borate)	Na2B4O7		80	20						A	A	80	A	150	A	80	A	A	B	B			60	85	150	
Boric Acid	H3BO3		80									80				95	B	B	X	A			60	85	150	
Boric Acid <10%										A	A									A						
Brake Fluid												X		150		X	A	A								
Brewery Slop																	B	B							A	
Brine			80									80				150	A	A	X				60	85		
Bromic Acid	HBrO3		X											80		20							60	85	100	
Bromine Dry	Br2		X	X						C	C				X	X	X	X	X	A					A	
Bromine Liquid	Br2		X	X	X						X	X		A		85	X	X	X				X	X	50	A
Bromine Water	Br2		X	X								X		X		40	B	X	X				X	X	100	
Bromine Wet										X	X														A	
Bromobenzene	C6H5Br											X				65	C	C	C				X	X	50	
Bromotoluene	C6H5CH2Br		X																				X	X	50	
Butadiene Gas	H2CCHHCCH2	0.8	40									X				85	A	A	B				60	40	B	
Butane	C4H10		80	20						A	A	60	X	120	X	80	A	A	B	A			60	80	120	
Butanol (Alcohol, Butyl)	C4H9OH		80	20						A	A	60		120		40	A	A	B	A			60	80		
Butter																	A	A	X							
Buttermilk																	A	A	X	A						
Butyl Acetate	CH3COO(CH2)3CH3	0.9	A	A	A					A	A	X	A	A	X	X	C	C	X	A					23	A
Butyl Benzoate	C6H5COO(CH2)3CH3																C	C								


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Butyl Bromide	C4H9Br														120		40									
Butyl Butyrate (Butyl Butanoate)	CH3(CH2)2CO2C4H9																A	A								
Butyl Cellosolveä (Ethylene)										A	A															
Butyl Chloride	C4H9Cl			95										175		40	B	B								
Butyl Ether	C4H9OC4H9		X									40		175		X	C	C	C				X	X		
Butyl Mercaptan	C4H9SH													60												
Butyl Phthalate			50									X		95		X							X	X	100	
Butyl Stearate	CH3(CH2)16COO(CH2)3CH3									A	A	40		120		85	B	B	C						100	
Butylene (Liquified Petroleum Gas)	CH2CHCH2CH3		X	95								40	X	120	X	60	B	B	X						150	
Butyraldehyde	(CH3)2CHCHO											X				X	A	A								
Butyric Acid	C3H7COOH		80	95	A						X	C	A	A	20	B	B		A25		X	X	120	A		
Caesium Hypochlorite	Ca(OCl)2		95	A	C					X	X	X	A	95	A	80	B	B	X	B		60	60	150	A	
Cadmium Cyanide	Cd(CN)2																						60	80	50	
Calcium Acetate	Ca(CH3COO)2		80																				60	80		
Calcium Bisulfate																										
Calcium Bisulfide	Ca(HS)2		95									60		100		80	B	C	X				60	40	150	
Calcium Bisulfite	Ca(HSO3)2		95							C	A	40		100		80			X	B			40	60	150	
Calcium Carbonate	CaCO3		95	A	A						A	40		150		80	A	A	X	B			60	95	150	A
Calcium Chlorate	Ca(ClO3)2		95							A		20		120		80	A	A					60	80	150	
Calcium Chloride	CaCl2		80	95	C					40	40	40	A	175	A	80	C	C	X	A			60	100	150	A
Calcium Hydroxide	Ca(OH)2		95	A	A					40	40	60	A	120		100	A	A	X	A			60	80	A	A
Calcium Nitrate	Ca(NO3)2		80									80		100		100	C	X	X				60	80	150	
Calcium Oxalate																										
Calcium Oxide	CaO											80					B	B					60		150	
Calcium Sulfate	CaSO4		80							C	C	80		100		95	A	A	X	B			60	60	150	
Calcium Sulfide	CaS		80									65		100		95	C	C					60	60		
Calgon (Sodium Hexametaphosphate)	(NaPO3)6																B	B	X							
Cane Sugar Liquors			80	150						A	A	65	A	175	A	95	A	A	X				60	60	100	
Caprolactam	CH2(CH2)4CO									X																
Caprylic Acid (Octanoic Acid)	CH3(CH2)6COOH	0.91										X		175			A	A							50	
Carbinol (Alcohol, Methyl)	CH3OH	0.8	80									60		150		40	A	A	A				60	100		
Carbolic Acid (Phenol)	C6H5OH		20	20						100	100	X	C	120	X	95	C	C	A	A			X	20		
Carbon Bisulfide (Carbon Disulfide)	CS2		C	A	A							X	X	100	X	80	A	A	A				X	X		C
Carbon Dioxide (Wet or Dry)	CO2		80	20						A	A	80	C	120	C	100	A	A	A	A			60	80	150	
Carbon Disulfide	CS2		X	X						A	A	X	X	100	X	80	A	A	A	B			X	X	20	
Carbon Monoxide	CO											80				80	A	A		A					150	
Carbon Tetrachloride 5 -10%										A	A									A25					A	
Carbon Tetrachloride pure	CCl4		40	20	A					A	A	X	X	175	A	85	A	A	x	A25			X	X	A	A
Carbonated Water										A	A															
Carbonic Acid	H2CO3		95	X						40	40	80	A	175	A	95	A	A		A25			60	100	150	
Casein														120		80										
Castor Oil		0.95	80							A	A	60	C	175	A	60	A	A	A				60	85	150	


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																							
Catsup																	A	A	X						
Caustic Lime (Calcium Hydroxide)	Ca(OH)2		95								60	A	120			100	A	A	X						
Caustic Potash (Potassium Hydroxide)	KOH		95	X						X	20	A	95		X	A	A						60	80	150
Caustic Soda (Sodium Hydroxide), 20%	NaOH		95	X						X	80	A	120			B	B	C					60	80	
Caustic Soda (Sodium Hydroxide), 5%																									
Caustic Soda (Sodium Hydroxide), 50%	NaOH		95	X						X	X	A	120			C	C	X					60	80	
Cellosolve																									150
Cetyl Alcohol	CH3(CH2)14CH2OH								A	A															
Chloral Hydrate (Knockout drops)	CCl3CH(OH)2								A	A															
Chloric Acid	HClO3												60		40	X	X		A				60		
Chlorinated Glue																B	B	X							
Chlorine Dioxide	ClO2		X								X		60		X	X	X	X					60	60	100
Chlorine Gas Dry	Cl2		X	X					X	X	X	C	175		20				X	B			X	X	100
Chlorine Gas Wet	Cl2		X	X					X	X	X	C			X	X	X	C					X	X	100
Chlorine Liquid	Cl2		X	C	X						X		A							B			X	X	100
Chlorine Water			X								X		175			X	X		A				60	80	
Chloroacetic Acid	CH2ClCOOH		20	X					X	X	X	C	95		X	C	C	X	B				20	20	
Chlorobenzene	C6H5Cl		X	95					A	A	X	X	120	X	100	A	A	X	B				X		50
Chloroform			C	A	C				A	A			A						A25						50
Chlorosulfonic Acid, 6%	ClSO2OH		X						X	X	X		80		X	X	X	X	A25				X	X	
Chlorox Bleach (Sodium Hypochlorite)	NaOCl:H2O		20								X		120		X	B	B	X					60	60	
Chocolate Syrup			40												40	A	A								
Chrome Alum (Chr. Potass. Sulf.)	CrK(SO4)2		60								80		120		80	B	B	B					20	20	
Chromic Acid Solution, 10%	H2CrO4		20	X					X	X	X	C	120		80	B	B	X	B				60	80	100
Chromic Acid Solution, 20%	H2CrO4		20	X							X	C	50		60	B	B	X	B				60	80	A
Chromic Acid Solution, 30%	H2CrO4		20	X							X	C	120		150	C	C	X	B				20	20	100
Chromic Acid Solution, 5%	H2CrO4		02. Aug	20	X						X	C	120		80	A	A	X	B				60	80	A
Chromic Acid Solution, 50%	H2CrO4		20	X	X						X	C	95		150	C	C	X	B25				X	X	100
Chromium Potassium Sulfate	CrK(SO4)2		60								80		120		80	B	B	B					20	20	
Cider									A	C															
Citric Acid	C6H8O7		60	20					65	65	95	A	95	A	95	A	A	X	A				60	80	150
Citric Acid 15%									65	65															
Citric Acid 5% 65°C									A	A															
Citric Oils																A	A	X							
Clorox (bleach)																			A						
Cobalt Chloride	CoCl2		40																X						
Coconut Oil			40								95		120		170										150
Cod Liver Oil			X						A	A		A			C										
Coffee			X						A	A	40				A	95	A	A	X	A					
Coke Oven Gas											X		205		80	B	B						X		100
Cola Concentrates			20						A	A															
Copper Acetate	Cu(C2H3O2)		20								80		120		X	C	C	X					20	20	


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																										
Copper Carbonate	Cu ₂ (OH) ₂ CO ₃															85	B	B							60	85	150	
Copper Chloride	CuCl ₂		80								A	80			175	95	B	B								60	85	150
Copper Chloride 10%			20	20	20	20	20	20						A														A
Copper Cyanide	Cu(CN) ₂		80									80			150	85	B	B	X	B						60	85	150
Copper Fluoborate											C									B								
Copper Fluoride	CuF ₂		60									20			120	95										60	60	150
Copper Nitrate	Cu(NO ₃) ₂		80							C		80			120	95	A	A	X	A25						60	95	150
Copper Sulfate	CuSO ₄		80	20						60	60	60	A	100	A	100	A	A	X							60	80	150
Copper Sulfate 20%			90	20	X	X								A						A								A
Copper Sulfate 3%			90		X	X		90						A						A								A
Corn Oil			40	20						A	A	80	X	120	A	95	A	A							20	20		
Corn Syrup			65									40		120		100	A	A							60	60	150	
Cottonseed Oil			80	20						A	A	80	X	120	A	150	A	A	X						60	85	150	
Cream			80									80				95	A	A	X									
Creosol	CH ₃ C ₆ H ₄ OH		X									X		100		40	A	A		B50					X	X		
Creosote			X	X						100	90	20		100		40									X	X		
Cresol	CH ₃ C ₆ H ₄ OH		20	20	X	90						X	X	100	X	95	A	A	X						X	X	100	A
Cresylic Acid			40	X	X	X	X	X	100	90				A						B25								A
Croton Aldehyde	CH ₃ CHCHCHO		20									X		100		40	A	A	A						X	X	20	
Crude Oil			20									20		175		150	A	A	A						60	85	150	
Cryolite	Na ₃ AlF ₆		80									20		150		95									60	40		
Cupric Cyanide (Copper Cyanide)	Cu(CN) ₂		80									80		150		85	B	B	X						60	85		
Cupric Fluoride	CuF ₂		80									80		120		95									60	80	150	
Cupric Nitrate	Cu(NO ₃) ₂		80									80		120		95	A	A	X						60	95		
Cupric Sulfate (Copper Sulfate)	CuSO ₄		80	20								60	A	100	A	100	A	A	X						60	80	150	
Cutting Oil			X									80		100		100	A	A	A									
Cyanic Acid (Isocyanic Acid)	HNCO															X	A	A										
Cyclohexane	C ₆ H ₁₂		X	20						A	A	X	X	120	X	80	A	A	A	B					X	X	100	
Cyclohexanol	C ₆ H ₁₁ OH	0.94	40											X	100	X									X	X	50	
Cyclohexanone	C ₆ H ₁₀ O	0.95	40	90	40	160	20	A	A	X	C	100	X	X										X	X	50	B	
Decalin	C ₁₀ H ₁₈		80									X				20									X	X		
Decane	CH ₃ (CH ₂) ₈ CH ₃											X		120		40												
Detergents			80									80				100	A	A		B					60	95	150	
Detergents, Heavy Duty			65									80				80									60	95		
Developers																	C	C										
Dextrin (Starch Gum)			80									80		205		100	B	B							60	95	150	
Dextrose	C ₆ H ₁₂ O ₆		80						A	A	80		205	A	100	B	B								60	95	150	
Diacetone Alcohol	CH ₃ COCH ₂ C(CH ₃) ₂ OH		40						A	A	X	A	175	X	X	B	B		A						X	X	50	
Diazo Salts			50											175											60	85		
Dibenzyl Ether	C ₆ H ₅ CH ₂ OCH ₂ C ₆ H ₅		X														C	C	X						X	X		
Dibutyl Ether (Butylether)	C ₄ H ₉ OC ₄ H ₉		X									40		175		X	C	C	C						X	X		
Dibutyl Phthalate	C ₆ H ₄ (COOC ₄ H ₉) ₂		20	20					A	A	X	C	175		X	A	A	B							X	X		


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																								
Dibutyl Sebacate																X	A	A								100
Dichlorethane	C1CH2CH2Cl		X	X						A	A		X	120		65	A	A						X	X	
Dichlorobenzene	C6H4Cl2											X		120		65	C	C	C					X	X	20
Dichloroethane	C1CH2CH2Cl		X									X				65	B	B		A			X	X		
Dichloroethylene	C1HC:CHCl		20							A	A	X		175		85							X	X		
Dichloroisopropyl Ether	[C1CH2C(CH3)H]2O		X	20								X	X	95	X	X	A	A	B				X	X		
Dichloromethane	CH2Cl2											X														
Dielectric (Transformer) Oil										A	A															
Diesel Fuel			50	20						A	A	40	X		X	85	A	A	A	B			20	20		
Diethanolamine	(HOCH2CH2)2NH		95							A	A	20		40									X	X		
Diethyl Cellosolveä												60				95	A	A								
Diethyl Ketone	C2H5COC2H5											95				X							X	X		
Diethyl Oxide (Ether)	(C2H5)2O		75									X		100		X	A	C	C				X	X		
Diethylamine	(C2H5)2NH		40									X		100		X							X	X		
Diethylbenzene	C6H4(C2H5)2		X									X				65							X	X		
Diethylene Glycol			80	A	A					A	A	60	A	175	C	95	A	A		B		60	95	A	A	
Diethylether (Ether)	(C2H5)2O		75									X		100		X	A	C	C				X	X	20	
Diglycolic Acid	O(CH2COOH)2		20											100			A	A				60	85	20		
Diisobutyl Ketone	[(CH3)2CHCH2]2CO											20				X						X	X	50		
Diisobutylene	C8H16													120		60	C	C								
Diisopropyl Ketone	[(CH3)2CH]2CO													20		X									20	
Dimethyl Benzene	C6H4(CH3)2		X									X		120		40							X	X		
Dimethyl Ether	CH3OCH3	0.66																					X	X		
Dimethyl Formanide (DEA)	HCON(CH3)2	0.95	95	95	90	90	10/20	A	A			A	A		X	A	A						X	X	A	
Dimethyl Ketone (Acetone)	CH3COCH3	0.8	60	150								X	A	175	X	X	A	A	A				X	X		
Dimethyl Phthalate	C6H4(COOCH3)2		X									X					C	C							100	
Dimethylamine	(CH3)2NH													X		X							X	X	20	
Diocetyl Phthalate												X					A	A					X	X	20	
Dioxane	C4H8O2		20	20	90	90	65					X		100		X	C						X	X	50 A	
Dioxolane	C3H6O2															X										
Diphenyl	C6H5C6H5											X				150	C	C	C							
Diphenyl Ether (Diphenyl Oxide)	(C6H5)2O		20								A	X				40	A	A								
Diphenyl Oxide	(C6H5)2O		20							A	A	X				40	A	A		B25						
Dipropylene Glycol	(CH3CHOHCH2)2O		50									80				120	A	A					60	80		
Disodium Phosphate	Na2HPO4		80									60		175		95	A	A					60	100	150	
Distilled Water	HOH		80									80		175			A	A					60	100		
Divinylbenzene	C6H4(CH:CH2)2		X																				X	X	20	
Dry Cleaning Solvents			20									X		120		95	A	A					X	X		
Epichlorohydrine	CH2OCHCH2Cl		50	X						A	A		C		X	X							X	X		
Epsom Salts (Magnesium Sulfate)	MgSO4		80									80	A	150	A	95	A	A	C	B			60	95		
Esters			X											80			A	A	A				X	X		
Ethane	C2H6		X											175			A	A	X				20	20		


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																							
Ethanol (Alcohol, Ethyl)	C2H5OH	0.8	80	150	20	20	65	A	A	80	A	150	A	80	A	A	A	A	A			60	60		A
Ethanolamine	HOC2H4NH2		20							20	C	40	C	85	A	A	X	B				X	X		
Ethers	(C2H5)2O		75					A	A	X		100		X	A	C	C	B25				X	X		
Ethyl Acetate	CH3COOC2H5		50	20	20	20	65	A	A	X	C	100	C	X	A	A	B	A				X	X	50	A
Ethyl Acetoacetate	CH3COCH2COOC2H5									X				X			B					X	X	20	
Ethyl Acrylate	CH2CHCOOC2H5		X							X				X	A	A	X					X	X	50	
Ethyl Alcohol (Alcohol, Ethyl)	C2H5OH	0.8	80	150						A	80	A	150	A	80	A	A	A				60	60		
Ethyl Benzoate																									
Ethyl Bromide	C2H5BR		X										50			A	A	C				X	X		
Ethyl Butyrate	C3H7CO2C2H5																					X	X		
Ethyl Celluloseä			20									C		C		C	C	B							
Ethyl Chloride (Chloroethane)	C2H5Cl	0.92	X	X				A	A	X	A	175	X	60	A	B	X	B25				X	X	150	
Ethyl Ether	(C2H5)2O		75	40	40	40	40			X		100		X	A	C	C					X	X	50	B
Ethyl Formate	HCOOC2H5		X							X		95		X	C	C	A					X	X	50	
Ethyl Hexanol	C4H9CHC3H7OH											120													
Ethyl Sulfate	(C2H4)2SO4									X				X	X	X									
Ethylbenzene	C6H5C2H5		X							X		150		20	C	C	A					X	X		
Ethylene Bromide	(CH2)2Br2		X							X				20								X	X	150	
Ethylene Chloride																								150	
Ethylene Chlorohydrin	(CH2)2ClOH									X				65	C	C						X	X	20	
Ethylene Diamine	(CH2)2(NH2)2		40	20				A	A	65	A			A	65	B	B	B				X	X	20	
Ethylene Dichloride (Dichloroethane)	ClCH2CH2Cl		X					A	A	X				65	B	B		B				X	X	20	
Ethylene Glycol	CH2OHCH2OH		80	150	20	90	90	A	A	80	A	A	A	120	A	A	B	B25				60	80	150	B
Ethylene Oxide	(CH2)2O	0.9	X	X						X	X		X	X	A	A	B					X	X	100	
Fatty Acids			80	90	X	X	90	40	40	80	C	120	X	80	A	A	X	A				60	60	150	A
Ferric Acetate (Iron Acetate, Basic)	Fe(C2H3O2)2OH									X				X											
Ferric Chloride 1%			90					X	X																
Ferric Chloride >1%				20	X	X	10/20	X	X			A							B50						A
Ferric Chloride, Anhydrous	FeCl3		80	95						80	A	150	C	100	X	X	X					60	85		
Ferric Cyanide																									
Ferric Hydroxide	Fe(OH)3		80	95						A	80		120		80							60	80		
Ferric Nitrate	Fe(NO3)3		80	20				C	C	40	A	120	C	80	C	C	X	B25				60	85	150	
Ferric Sulfate	Fe2(SO4)3		80	20						80	A	120		85	B	B	X	A25				60	80	150	
Ferric Sulfate 1 to 5%								A	A																
Ferrous Chloride	FeCl2		80	20						95			120		95	X	X	X	B25			60	80	150	
Ferrous Nitrate	Fe(NO3)3		80							95			120		95							60	80	150	
Ferrous Sulfate	FeSO4		80							95			205		95	A	A	X	B25			60	85	150	
Fish Solubles			80					A	A	95												60	85		
Fluoboric Acid	HBF4		60					X	X	50			120		95	C	C	X	A25			60	85		
Fluorine Gas (Wet)	F2		60										X						B25			60	60	20	
Fluorine, Liquid	F2		X	C	X					X				40	C	C	X	B25				X	X	A	A
Fluosilicic Acid (Hydro-Fluosilic Acid)	H2SiF6	10	60	X				X	C	60	A	120		95	C	C	X	B25			X	85			


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																							
Formaldehyde, 35%	HCHO	0.82	80	20							X	C	120	C	X	A	A	X				60	65		C
Formaldehyde, 40%	HCHO		65						20	A	X	C	120	C	X	A	A	X	B25			60	65	A	C
Formaldehyde, cold 10%						20	20	20	40	40				A											C
Formaldehyde, hot 10%									A	A				A											C
Formic Acid	HCOOH		80	150	X	20	X	40	X	X	A	150	C	40	A			X	A			40	40	120	A
Freon 11 (MF)	CCI3F		20								80		120		80	A		X	A			20	20		
Freon 113 (TF)	Cl3CCF3										20		120		20	A			A					A	
Freon 114	C2Cl2F4		20								40		120		40				A						
Freon 12	Cl2CF2		20					95	95	80	C	120	X	80	B				A						
Freon 12 (Wet)	Cl2CF2		20								C	120	X						A						
Freon 22	HCClF2		20					95	95	X	A	X	X	X	B				A			X	X		
Freon TF	CCL2FCClF2											120		20	B				A						
Fructose	C6H12O6		80							80		150		80	A	A			A			60	85		
Fruit Juice			80						A	A	80		150	A	100	A	A	X	A			60	85		
Fuel Oil			20	150					A	A	95	X	150	X	80	A	A	A	A25					A	
Furan	C4H4O	0.94									X				X	A	B								
Furfural (Ant Oil)	C4H3OCHO		X	20					A	A	X	C		X	X	A	B	B	B			X	X	100	
Furfuryl Alcohol	C4H3OCH2OH			20																					
Gallic Acid	C6H2(OH)3CO2H		20								20		150		85	B	B	X	B25			60	85	50	
Gas, Natural			20	20					A	A	95	X	150	A	85	A	A	A				60	85	150	
Gasoline, Leaded			X	20					A	A	80		120		80	A	A	A	A			40		150	
Gasoline, Sour			X						A	A	95	X	120		80	A	A	A	A			60		150	
Gasoline, Unleaded			X	20					A	A	95		120		80	A	A	A	A			20		150	
Gelatin			90	90	X	X	90	A	A	80	A	150	A	80	A	A	X	A				60	85	100	A
Gin			50										150									60	85	150	
Glucose	C6H12O6		80								80	A	205	A	150	A	A	B	A			60	85	150	
Glue P.V.A			50						A	A	60		120		120	A	A	A	A			60	85		
Glycerine (Glycerol)	C3H5(OH)3		90	90	40	90	90	A	A	80	A	205	A	120	A	A	C	A				60	85	150	A
Glycerol (Glycol Alcohol)	C3H5(OH)3		80							A	80	A	205	A	120	A	A	C				60	85		
Glycol Monobutyl Ether			40	X						X	C	100	X	X								20	40		
Glycol Monoether									A	A															
Glycolic Acid (Hydroxyacetic Acid), 1%	CH2OHCO2H		65								20		100	20	X	A	A					60	85	50	
Glycols			80	150							60	A	150	A	120	A	B	C				60	85		
Glyoxal, 30%	OHCCHO										X		50												
Gold (Auric) Cyanide	Au(CN)3										60		120		80	A	A	X							
Grape Juice			60								80		120		100	A	A	X				60	60		
Grape Sugar			60								80		120		100	A	A	X	A			60	60		
Grease			60						A	A	65	X			95	A	A	A							
Green Liquor (Alkaline pulp)			20								60	A			20										
Gum Arabic									A	A															
Helium	He		80	150					A	A	65	A		A								60	85		
Heptane	CH3(CH2)5CH3		20								80		150		170	A	A	A	A			40	65	150	


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Chemical Name	Formula																								
A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "- "=not tested 10/20=concentration/temperature 150=max. operating temperature																									
Hexane	CH3(CH2)4CH3	0.66	65							A	A	80		150		170	A	A		A			X	20	120
Hexene	C6H12	0.67	X									20		150								X	X		
Hexyl Alcohol (Hexanol)	C6H13OH		20									60		120		120	A	A	A	A			60	85	
Honey			80							A	A	65	A	205		100	A	A	A	A			60	85	
Hot Melt (180-200°C)			X	X	X	A	X							A											X
Hydraulic Oil (Petro)			65	90	20	120	90			A	A	70		150		120	A	A	A	A					A
Hydraulic Oil (Synthetic)			20	X						A	A	X		150		120	A	A	A	A					
Hydrazine	H2NNH2			X								20	A	120	C	X	A	A	X			X	X		
Hydrobromic Acid, 20%	HBr		65	20						X	X	X		120		85	X	X	X	A25		60	80	150	
Hydrobromic Acid, 50%	HBr		65	X						X	X	X	A	120	X	85	X	X	X			60	80	150	
Hydrochloric Acid, 5%										X	X									A					A
Hydrochloric Acid, 10%	HCl		50	X				20		X	X	X		120		40	X	X	X	A25		60	100		A
Hydrochloric Acid, 20%	HCl		50	X						X	X	X		120		150	X	X	X	A25		60	100	A	A
Hydrochloric Acid, 25%	HCl		50	X						X	X	X		120		40	X	X	X	A25		60	100	A	A
Hydrochloric Acid, 37%	HCl		90	20	X	20				X	X	X		120		20	X	X	X	A25		60	100	A	A
Hydrochloric Gas Dry	HCl			20									A		X	20				C					A
Hydrocyanic Acid	HCN		60	20						X		95		120		85	A	A	X	B50		60	60		
Hydrocyanic Acid, 10%	HCN		60	20						X		95	A	120	X	85	A	A	X	A25		60	60	150	
Hydrofluoric Acid, 10%			65	20	X	X	X	20	20					A											150
Hydrofluoric Acid, 20%	HF		65	20	X	X	X					X		150		65	X	X	X	A		40	60	150	
Hydrofluoric Acid, 30%	HF		90	20	X	X	X					X		150		95	X	X	X			40	40	A	
Hydrofluoric Acid, 50%	HF		40	20	X	X	X					X	20	150	X	95	X	X	X			20	20	120	
Hydrofluoric Acid, 75%	HF	0.99	40		X	X	X					X		120		40	X	X	X	B50		X	X		
Hydrofluosilicic Acid	H2SiF6		20								C	50		150		95	X	X	X	B50		X	X	150	
Hydrofluosilicic Acid, 20%	H2SiF6		20									50		150		95	X	X	X	B		X	X		
Hydrogen	H2		20							A	A	80		150		95	A	A		B		60	100	150	
Hydrogen Peroxide, 10%	H2O2		20	20							X	X		120		80	A	A	X	A		60	X		
Hydrogen Peroxide, 30%																				A					A
Hydrogen Peroxide, 5%	H2O2		80	20						A	X		A	120	A	80				A		60	X		
Hydrogen Peroxide, 50%	H2O2		20	20						X	X	X		120		95	B	B	X	A		20	X	50	
Hydrogen Phosphide	PH3		20									X		95						A		X	20	50	
Hydrogen Sulfide (Aq Sol)	H2S		65	20						A	A	40	A	120	X	60	A	A	X			60	85	50	
Hydrogen Sulfide (Dry)	H2S		65	20						A	A	40	A	120	X	80	A	A	C			60	85	150	
Hydroquinone	C6H4(OH)2		65	20	X	20	20			A	A	20	X	120		80	C	C	C			60	85	100	A
Hydroxyacetic Acid, 1%	CH2OHCOOH		65									20		100	20	X	A	A				60	85		
Hydroxyacetic Acid, 20%																									
Hydroxylamine Sulfate	(NH2OH)2H2SO4		50										20		20					60			85		
Hypochlorous Acid	HOCl		50							C	C	X		120		80	X	X	X			60	85	150	
Ink												20				20	A	A	X						
Iodine Solution, 0%	I2		20	3/20	X	X	X					20		95		20	X	X	X			20	20		B
Isobutyl Alcohol																									
Isooctane	(CH3)3CCH2CH(CH3)2	0.7	20									20				85	A	A				20	20	150	


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																								
Isophorone	C9H14O	0.92														X	B	B	C				X	X		
Isopropanol (Alcohol, Isopropyl)	(CH3)2CHOH	0.78	65	20								20	A	150	A	95	A	A	C	B			60	60		
Isopropyl Acetate	CH3COOCH(CH3)2	0.92		X								X	C	95	X	X	C	C	X				X		A	
Isopropyl Alcohol (Alcohol, Isopropyl)	(CH3)2CHCH2OH	0.78	65	20						A	A	20	A	150	A	95	A	A	C				60	60		
Isopropyl Chloride	CH3CHClCH3											X		100		20	B	B	B							
Isopropyl Ether (Disopropyl Ether)	[(CH3)2CH]2O	0.20	20									20		60		X	A	A	A				X	X	50	
Isotane										A	A															
Jet Fuel JP-3 (Gasoline-Kerosine)												20		95		85	A	A	A							
Jet Fuel JP-4 (Kerosine)			X									95	X	120	X	150	A	A	A				60	20	150	
Jet Fuel JP-5 (Kerosine)			X									95	X	120	X	150	A	A	A				60	20	150	
Kerosene (Kerosine)		0.81	20	150	90	150	90	A	A	A	A	95	X	120	X	150	A	A	A				60	20	150	A
Ketchup										A	A															
Ketones			40									X		95		X	A	A	A				X	X		
Kraft Liquor			20									20				40	A	A					60	85		
Lacquer												X				X	A	A	X							
Lacquer Thinner								A	A	X							A	A	X				X			
Lactic Acid (Milk Acid)			80	20	10/20	20	10/20	X		X	20	120	X	100	A	A	A	X				60	60		B	
Lactid Acid < 3%								40	40				A												B	
Lard			20									60		120		85	A	A				60	85			
Lard Oil			80	20				A	A	A	A	60	C	120	C	85	A	A				60	85	150		
Latex			40					A	A	A	A	20				20	A	A								
Lauric Acid	CH3(CH2)10COOH	0.83	65									20		150		40						60	85	100		
Lauryl Chloride	C12H25Cl		20									20		120		95						60	20	100		
Lead Acetate (Sugar of Lead)	Pb(C2H3O2)2		80					A	A	A	A	20	A	120	X	X	C	C	X			60	85	150		
Lead Chloride	PbCl2		60									40		120		100						60	60	150		
Lead Nitrate	Pb(NO3)2		80											310		100						60	80	150		
Lead Sulfamate																										
Lead Sulfate	PbSO4		65									95		150		230						60	85	150		
Lemon Oil			X									60		120		95						20	20	150		
Ligroin			X									40		120		40	A	A				X	X			
Lime-Sulfur Solution			20					C	C	X	A			A	85	A	A					60	85			
Linoleic Acid (Linolic Acid)		0.91	65									20	X		C	20	A	A	C			60	85	100		
Linseed Oil (Flaxseed Oil)			65	20				A	A	A	A	80	X	150	A	120	A	A	A			60	85	150		
Lithium Bromide	LiBr		20					95	100	60				150		95						60	85	100		
Lithium Carbonate	Li2CO2							A	A																	
Lithium Chloride	LiCl		20					95	100	20				150		60	A	A				60	85			
Lithium Hydroxide										X																
Lithium Hydroxide < 5%																										
LPG												40		150			A	A	A							
Lubricants			20							A	A	80		175		80	A	A	A							
Lubricating Oil			20					A	A	A	A	80	X	175	X	80	A	A	A			60	85			
Lye (Sodium Hydroxide& Potassium Hydroxide)			65	X																						


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																								
Machine Oil			50									60		100		60	A	A	A				60	85		
Magnesium Carbonate	MgCO3		80									80		100		100	A	A	A				60	80	150	
Magnesium Chloride	MgCl2		80	20	A					A	A	80	A	205	A	80	B	B	X				60	85	150	A
Magnesium Citrate	MgHC6H5O7		80									80		150		100							60	80		
Magnesium Hydroxide (Milk of Magnesia)	Mg(OH)2		80									80	A	150		230	A	A	A				60	85		
Magnesium Nitrate	Mg(NO3)2		80							C	C	20		150		230	A	A					60	85	150	
Magnesium Oxide	MgO									A	A	60														
Magnesium Sulfate (Epsom Salts)	MgSO4		80							A	A	80	A	150	A	95	A	A	C				60	95	150	
Maleic Acid	HO2CC2H2CO2H		80							C	C	X		120		95	A	A	A				60	85	120	
Maleic Anhydride	HCCOOCOCH	0.93										X					A	A								
Malic Acid (Apple Acid)	CO2HCH2CH(OH)CO2H		20									40		120		95	A	A	X				60	85	120	
Manganese Sulfate	MnSO4		80									60		120		230	A	A	C				60	80		
Mash												60					A									
Mayonnaise			20							A	A	80		150	A	95	A	A	X							
Melamine (Trizane)			20									X					X	X								
Melamine Resins										A	A															
Mercuric Chloride	HgCl2		20							A	A	60		150		85	X	X	X				60	85	120	
Mercuric Cyanide	Hg(CN)2	4	80									60		150		20	A	A	X				60	80	120	
Mercuric Nitrate	Hg(NO2)2															20										
Mercuric Sulfate	HgSO4		80									20		150		20							60	80	120	
Mercurous Chloride	Hg2Cl2		50																							
Mercurous Nitrate	HgNO3		20									X	A	150		20	A	A					60	85	120	
Mercury (Quicksilver)	Hg		20	20	20	20	20	20	A	A	40	A	150		40	A	A	A					60	85	150	A
Methacrylic Acid, Glacial	CH2CCH3CO2H																						X	X		
Methane (Methyl Hydride)	CH4		20							A	A	80	X	150	X	150	A	A	A				60	20	150	
Methanol (Alcohol, Methyl)	CH3OH	0.8	80	150	65	65	65	65	A	A	60		150		40	A	A	A	A				60	100	A	A
Methyl Acetate	CH3CO2CH3	0.92	20								A	X	C		X	X	A	A	A				X	X		
Methyl Acetone												X				X	A	A	A							
Methyl Acrylate	CH2CHCOOCH3											X		150		X										
Methyl Alcohol (Alcohol, Methyl)	CH3OH	0.8	80	150								60		150		40	A	A	A				60	100		
Methyl Benzene (Toluene)	CH3C6H5	0.9	50	20								X	X	95	X	20	A	A	A				X	X		
Methyl Bromide	CH3Br		X									X		120		80	A	A					X	X	150	
Methyl Butanol (Alcohol, Amyl)	C5H11OH	0.82	50	20								60	A	205	X	85	A	A	B				40	40		
Methyl Butyl Ketone	CH3COC4H9	0.83	X									X		100		X	A	A					X	X	B	
Methyl Cellosolveä	CH3OC2H4OH		20							A		X	C		X	X	A	A	A				X	X		
Methyl Chloride (Chloromethane)	CH3Cl		X							A	A	X		120		65	A	A					X	X	150	
Methyl Chloroform (Trichloroethane)	CHCl2CH2Cl		X									X		95		80	A	A					X	X	50	
Methyl Dichloride																										
Methyl Ether (Dimethyl Ether)	CH3OCH3	0.66																					X	X		
Methyl Ethyl Glycol			X	20	20	20	75							A												B
Methyl Ethyl Ketone (MEK)	CH3COC2H5	0.82	65	20						A	A	X	A	95	X	X	A	A	A				X	X	50	
Methyl Formate	HCOOCH3	0.98										X				X	B	B	C						50	


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																								
Methyl Isobutyl Carbinol	CH3CO2CH(CH3)CH2CH(CH3)2											20		100		20										
Methyl Isobutyl Ketone																									50	
Methyl Isopropyl Ketone	CH3COCH(CH3)2	0.82	20									X		100		X	A	A					X	X		
Methyl Methacrylate	CH2C(CH3)CO2CH3	0.94	20	20	20	65	20	A	A	X		80		X	A							X	X	50	A	
Methyl Salicylate (Wintergreen Oil)	C6H4OHCO2CH3		20																B			20	20			
Methyl Sulfate (Dimethyl Sulfate)	(CH3)2SO4		20																			20	20	150		
Methylamine	CH3NH2		X								X		120		40		A					X	X	20		
Methylene Bromide	CH2Br2		X								X		120		20							X	X	50		
Methylene Chloride	CH2Cl2		90	20	5/20	5/20	20	A	A	X		120		X		A						X	X	50		
Methylene Iodine	CH2I2		X										120		95							X	X	20		
Methylisobutyl Carbinol	(CH3)2CHCH2CH(CH3)OH		50									20		95		20						20	20			
Methylsulfuric Acid			50																			60	85	50		
Milk			20	20				A	A	60	A	205	A	85	A	A						60	85	150		
Milk Products			100	100	100	100	100						A												A	
Mineral Oil			20	90	90	90	90	A	A	60	X	150	C	150	A	A	A					60	85	150	A	
Molasses			80					A	A	60		150		150	A		A					60	85	150		
Monochloroacetic Acid (Chloroacetic Acid)	CH2ClCOOH		20	X							X	C	95		X	C	C	X				20	20			
Monochlorobenzene (Chlorobenzene)	C6H5Cl		X	95							X	X	120	X	100	A	A	X				X				
Monoethanolamine (Ethanalamine (MEA))	HOC2H4NH2		20					A	A	20	C	40	C	85	A	A	X					X	X			
Morpholine	C4H8ONH	1									X		95		X	B	B									
Motor Oil			X							A	80		120		120	A	A					60	85	150		
Mustard			20					A	A	40		150		65	A	A	A					60	85			
Naphtha			20	90	90	90	90	A	A	60	X	100	X	65	A	A	A					60			B	
Naphthalene (Tar Camphor)	C10H8		20	20	A			A	A	X	X	120	X	50	A	A						X	X		A	
Natural Gas			20	20							95	X	150	A	85	A	A	A					60	85	50	
Neon	Ne		80								60	85	150		95	A	A					60	85			
Nickel Acetate	Ni(OOCH3)2										20				X							60	80	20		
Nickel Chloride	NiCl2		95	20					40	40	80	A	120	A	100	A	A					60	100	150		
Nickel Cyanide	Ni(CN)2																									
Nickel Hydroxide								A	A																	
Nickel Nitrate	Ni(NO3)2		80								80		150		120							60	85	150		
Nickel Sulfate	NiSO4		80	20				40	40	95	A	150	A	80	A							60	85	150		
Nicotine	C10H14N2		X								X		120			A	A	A				60	85	50		
Nicotinic Acid	C5H4NCO2H		20										120			A		A				60	85	100		
Nitrating Acid (< 1% Acid)																										
Nitrating Acid (<15% H2SO4)																										
Nitrating Acid (<15% HNO3)																										
Nitrating Acid (>15% H2SO4)																										
Nitric Acid Concentrate	HNO3		X		X			X	X	X		20		X	A	A						X	X			
Nitric Acid Fuming, 97.5%	HNO3		X	X				X	X		X			X								X	X			
Nitric Acid, 10%	HNO3		100	100	X	20	20	20	20	X	C	120		85	A	A						40	80	120	B	
Nitric Acid, 20%	HNO3		80	20	X			X	X	X	20	120		85								20	80			


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Filtermat Belgium Winninglaan 17, B-9140 Temse Tel +32-3-710.65.50 Fax +32-3-710.65.58 info@filtermat.be www.filtermat.be				SP Grav	Polypropylene	Polyester	Polyamide	Aramid (Nomex)	Wool	Cotton	Viscose/Phenolic	NBR	EPDM	PTFE	Silicone	FPM (Viton)	SS-316	SS-304	CST	Hastelloy C4	SAN	PVC	CPVC	E-CTFE (HALAR)	PVDF
Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																							
Oils, Rosin																									
Oils, Sesame Seed																									
Oils, Silicone			65							A		60		175		85	A	A	A			60	85		
Oils, Soybean										A	A														
Oils, Sperm																									
Oils, Tanning																									
Oils, Turbine										A															
Oils, Vegetable			50							A		95		175		95		A				60	85	150	
Oleic Acid (Red Oil)	CH3(CH2)7CHCH(CH2)7C	0.9	80	65	X	40/65	40/65	40	X	40	X	40	120	85	A	A					60	85	120	A	
Oleum (Fuming Sulfuric Acid), 40+%	H2S2O7		X						X	X	X		65		X	A	A					X	X		
Orange Extract																									
Oxalic Acid	HO2CCO2H		80	5/90	20	X	X	40	X	X	A	150	C	80	A	A					60	85	50	B	
Oxygen Gas cold	O2		65									40		205	80	A	A	A				60	85		
Oxygen Gas hot									X	X															
Ozone	O3		X	A	X							X		150	80	A	A					20	20	100	A
Palm Oil											A														
Palmitic Acid, 10%	CH3(CH2)14CO2H	0.84	80									40		150	85	A	A					60	20	120	
Palmitic Acid, 20%	CH3(CH2)14CO2H		80									40		150	85	A	A					X	20		
Paradichlorbenzene																									
Paraffin			50									60		120	120	A	A					50	60	150	
Pentane (Amyl Hydride)	CH3(CH2)3CH3								A	A	40		40	40	40	A	A								
Peracetic Acid, 40%	CH3COOOH		40	C	C								A	10								X	X		A
Perchloric Acid, 10%	HClO4		40									X		120	20	A	A					60	60	100	
Perchloric Acid, 20%	HClO4		X									X		80	80	B	B					X	X		
Perchloroethylene	Cl2CCCl2		20	150	90	90	90	A	A	X	X	120	X	95	A	A	A					X	X		A
Petrol Ether			C	A	A								A												A
Petrolatum (Petroleum Jelly)			50							A		40		150	40		A					60	85		
Petroleum (Sour)			20	150						A	A	80	X	150	80							60	85		
Petroleum Oils			20	150							A	80	X		X	80						60	95		
Phenol Ether																									
Phenol Formaldehyde Resins										A	A														
Phenol, 40%	C6H5OH		20	20	1/20	85	X				X	C	120	X	95	C	C	A				X	20		B
Phenyl Acetate	C6H5OOCCH3											X			X										
Phenylhydrazine	C6H5NHNH2		X									X		40	80							X	X	50	
Phosgene Gas	COCl2		X									X			X							X	X		
Phosgene Liquid	COCl2		X									X			X							X	X		
Phosphate Esters																									
Phosphoric Acid Anhydride										X															
Phosphoric Acid, <5%										40	40														A
Phosphoric Acid, 10%	H3PO4		100	100	20	20	20	20	20	X	A	120	C	95		A						60	85	150	A
Phosphoric Acid, 20%	H3PO4		80							X	X	X		120	95	C	A					60	85	A	
Phosphoric Acid, 30%	H3PO4		80							X	X	X		120	95	A	A					60	85	150	


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																							
Plating Solutions, Electroless -95°C																									
Plating Solutions, Ferr. Sulfate Chloride Bath 70°C																									
Plating Solutions, Ferrous AM Sulfate Bath 65°C																									
Plating Solutions, Ferrous Chloride Bath 90°C										X	X														
Plating Solutions, Ferrous Sulfate Bath 65°C										X	X														
Plating Solutions, Fluoborate -75°C											C														
Plating Solutions, Fluoborate Bath 65°C																									
Plating Solutions, Fluorborate Bath 40°C										A	A														
Plating Solutions, Fluoride Bath 55°C																									
Plating Solutions, Fluosilicate Bath 35°C																									
Plating Solutions, Gold		20										80	120		80	A						60	80	100	
Plating Solutions, High Chloride -70°C										A	A														
Plating Solutions, High Speed Bath 85°C																									
Plating Solutions, High Speed Br. 45°C																									
Plating Solutions, Indium		50											120		40	A						60	80		
Plating Solutions, Iron		20										80				A									
Plating Solutions, Lead		60								C	X	80	120		80							60	60	100	
Plating Solutions, Neutral Bath 25°C																									
Plating Solutions, Nickel		60										80	120		80		A					60	60	100	
Plating Solutions, Regular Brass 40°C										A	A														
Plating Solutions, Rhodium		60										80	120		80							60	40	100	
Plating Solutions, Rochelle Salt Bath 65°C																									
Plating Solutions, Silver		80								20	25	80	150		80	A	A					60	85	100	
Plating Solutions, Sulfamate - 60°C																									
Plating Solutions, Sulfamate Bath 60°C																									
Plating Solutions, Tin		80								60	60	80	150		80	A	A					60	85	100	
Plating Solutions, Tin Fluoborate 40°C																									
Plating Solutions, Tin Lead 40°C																									
Plating Solutions, Watts Type - 70°C																									
Plating Solutions, Zinc		80										80	150		80	A	A					60	95	100	
Polyethylene Glycol	H(OCH2CH2)nOH	80											120		95							60	80		
Polyvinyl Acetate Emulsion												20	120		20										
Polyvinyl Alcohol	(CH2CHOH)n	80										40	280		100	A	A					60	60		
Potash (Potassium Carbonate)	K2CO3	80										80	150		95	A	A	A				60	80	150	
Potassium Acetate	KC2H3O2	40								A	A	20	A	120	20	B		A							
Potassium Alum (Aluminum Potassium Sulfate)	AlK(SO4)2	80										95	120		95	A	A	A				60	80	150	
Potassium Bicarbonate	KHCO3	80										20	205		95	A	A					60	95		
Potassium Bichromate (Potassium Dichromate), 10%	K2Cr2O7	80										80	150		120	A	A					60	80		
Potassium Bisulfate	KHSO4	80										80	A	150	95	A						60	80	120	
Potassium Bromate	KBrO3	80									C	80		120	220	A						60	80		
Potassium Bromide	KBr	80								C		80		150	95	A						60	80	150	
Potassium Carbonate (Potash)	K2CO3	80	A	A								80		150	95	A	A	A				60	80		A


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																								
Saline Solutions (Brine)			80									80				150	A	A	X				60	85		
Salt Brine			80									80				150	A	A	X				60	85		
Sea Water			80	100	100	100	100	100		A	A	80	A	A	A	280	A	A					60	85		A
Selenic Acid	H2SeO4		20																				60	85		
Sewage			80									65		175		80	A	A					60	80		
Shellac Bleached			40							A	A						A	A	A							
Shellac Orange			40							A	A						A	A	A							
Silicic Acid	SiO2 nH2O		80									80		120		95							60	80	150	
Silicone Oil			65	65	20	65	20					60		175		85	A	A					60	65	150	A
Silver Bromide	AgBr																A	A								
Silver Cyanide	AgCN		80									X		175		60	A	A					60	80	150	
Silver Nitrate	AgNO3		80							A	A	60	A	175	A	120	A	A					60	80	150	
Silver Sulfate	Ag2SO4		60									40		120		95							60	80	150	
Soap Solutions			80							95	95	80		175		95	A	A					60	85	A	
Soda Ash (Sodium Carbonate)	Na2CO3		80	20								95	A	205	A	120	A	A					60	85		
Sodium Acetate	NaC2H3O2		80	20	A					A	A	X	A	175	X	X	A	A					60	80	150	A
Sodium Alum	Al2(SO4)3 nNa2SO4		80									80		95		100							60	80	150	
Sodium Aluminate	Na2Al2O4		40									80				95	A	A							A	
Sodium Benzoate	C6H5COONa		80	A	C							60		150		95							60	85	150	A
Sodium Bicarbonate	NaHCO3		80	20						A	A	80	A	205	A	150	A	A					60	85	150	
Sodium Bichromate (Sodium Dichromate)	Na2Cr2O7		60									60		175		95	A	A					60	60		
Sodium Bisulfate	NaHSO4		80	20						A	A	80	A	120	A	120	A	A	A				60	95	150	
Sodium Bisulfite	NaHSO3		80	20								80	A	175	A	120	A	A					60	85	150	
Sodium Borate (Borax)	Na2B4O7		80	20						A	A	80	A	150	A	80	A	A	B				60	85		
Sodium Bromide	NaBr		80	20	C							20		150		120	A	A					60	85	150	A
Sodium Carbonate (Soda Ash)	Na2CO3		80	20			100	5/20		A	A	95	A	205	A	120	A	A					60	85		A
Sodium Chlorate	NaClO3		80	20	X					X	X	80		175		80	A	A					40	85	150	A
Sodium Chloride (Salt)	NaCl		80	150	A							60	A	175	A	95	A	A					60	100		A
Sodium Chlorite	NaClO2		20									X		95		X							X	X		
Sodium Chromate	Na2CrO4		20									20				20	A	A	A							
Sodium Cyanide	NaCN		80	A	C					A	X	60	A	175	A	95	A	A	A				60	50	150	A
Sodium Dichromate	Na2Cr2O7		60							X	X	60		175		95	A	A					60	60	100	
Sodium Ferricyanide	Na3Fe(CN)6		65									20		150		60	A	A					60	85		
Sodium Ferrocyanide	Na4Fe(CN)6		65									20		175		60							60	85		
Sodium Fluoride	NaF		20							A	A	20	A	175		60	A	A					60	85	150	
Sodium Hydrosulfite	Na2S2O4																A	A	X							
Sodium Hydroxide Conc. (Caustic Soda)	NaOH		50						X	X	X	X		20		X							60	65		
Sodium Hydroxide, 5%				20	20	20			X	45	X															
Sodium Hydroxide, 15%	NaOH		80	X					X	45	X	60		205		40		A					60	85	150	
Sodium Hydroxide, 20%	NaOH		80	X					X	45	X	40		175	A	40	A	A	A				60	85		
Sodium Hydroxide, 30%	NaOH		80	X					X	X	X	40		175		40		A					60	85	120	
Sodium Hydroxide, 50%	NaOH		80	X					X	X	X	X		175		X	A	A	A				60	85	120	


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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																											
Sodium Hydroxide, 70%	NaOH		80	X					X	X	X	X			175		X	A	A	A						60	85	A	
Sodium Hypochlorite (Bleach)	NaOCl		65	20	.4/20	5/20	.4/20		X	X	X	X	A		150	C	85	A	A							60	85		A
Sodium Hypochlorite (Conc.)	NaOCl		20								X	X			150											60	85	A	A
Sodium Hyposulfate (Sodium Dithionate)	Na2S2O6		20														A	A											
Sodium Iodide	NaI																											150	
Sodium Metaphosphate	NaPO3		20							A	A	65	A			80	A	A	A							60	85	150	
Sodium Metasilicate	Na2SiO3		80									50			175		95	A	A							60	85		
Sodium Nitrate	NaNO3		80	20	C					A	A	X	A		205		95	A	A							60	80	150	A
Sodium Palmitate	CH3(CH2)14COONa		50												120											60	85		
Sodium Perborate	NaBO3		80	70								95	A	175	C	80	A	A	A							60	85		
Sodium Perchlorate	NaClO4		80									20		175												60	80	120	
Sodium Peroxide	Na2O2		20	X						X	X	95	A	120	X	80	A	A								60	80	150	
Sodium Phosphate, Dibasic	Na2HPO4		80									60		175		95	A	A								60	100		
Sodium Phosphate, Monobasic	NaH2PO4		80							A	A	60		175		95	A	A								60	80	150	
Sodium Phosphate, Tribasic (TSP)	Na3PO4		80	20								95	A	175		95	A	A								60	85		
Sodium Polyphosphate			80									60	A	175	X	95	A	A								60	80		
Sodium Polysulfide											X																		
Sodium Polysulfide 40%										A	60																		
Sodium Silicate (Soluble Glass)	Na2OSiO2		80	20						A	A	60	A	175		95	A	A	A							60	85	150	
Sodium Sulfate	Na2SO4		80	20	A					A	A	60	A	205	A	95	A	A	A							60	85	150	A
Sodium Sulfide	Na2S		80	20	A					C	C	60	A	175	A	95	A	A	A							60	85	150	A
Sodium Sulfite	Na2SO3		80	A	A							60		175		95	A	A								60	85	150	A
Sodium Tetraborate (Sodium Borate)	Na2B4O7		50	20								80	A	150	A	80	A	A								60	85		
Sodium Thiocyanate	NaSCN		20	20						A	A	40		120		80										60	60		
Sodium Thiosulfate	Na2S2O3		80	20						A	A	95	A	175	A	95	A	A	A							60	80	150	
Sorghum																	A	A	A										
Soy Sauce										A							A	A											
Soybean Oil			40							A		60	X	120	A	95	A	A								60	80		
Stannic Chloride (Tin Chloride)	Na2SnCl6		20	65	20	20	20			C	C	60	A	175	C	95	C	C								60	85	150	A
Stannic Salts			65									60		175		95	C	C								60	85		
Stannous Chloride (Tin Salts)			20	20						C	C	60		120		95	C	C								60	80	150	
Starch (Amylum)			80							A	A	50	A	175		95	A	A								60	80	150	
Steam (Continuous)										105																			
Stearic Acid	CH3(CH2)16CO2H	0.84	50	20						40	40	95	C	175	C	80	A	A								60	85	150	
Stoddard Solvent (Dry Cleaning Solvent)			20	20						A	A	80	X	150	X	80	A	A	A							X	X		
Strontium Carbonate														A															A
Styrene	C6H5CH:CH2	0.9	65	20	20	65	20			A	A	X		120		X	A	A								X	X		A
Succinic Acid (Butanedioic Acid)	CO2H(CH2)2CO2H		20									20		95		20										60	50	100	
Sugar Solutions			80							A	A	40		175		95	A	A	A							60	95		
Sulfamic Acid	HSO3NH2		X																							X	X		
Sulfate Liquors (Paper Pulp)			65							X	X	80	C	95		80	C	A								60	85	100	
Sulfated Detergents			65											150		40										60	85		


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Sulfite Liquor (Sulfite Paper Pulp)			80									20		120		60	B	A					60	80	100	
Sulfur	S																A	A	B						150	
Sulfur Chloride	S2Cl2		20									X		120		80		C					60	85	20	
Sulfur Dioxide	SO2									X	X		A		C		A	A								
Sulfur Dioxide Dry	SO2		80							X		X		150		40	A	A					60	80	100	
Sulfur Dioxide Wet	SO2		80									X		150		60	A	A					40	65	50	
Sulfur Slurries			X									X		175		95	A	A					60	85		
Sulfur Trioxide Dry	SO3		X							X	X	X				65	B	B					X	X		
Sulfuric Acid, 5%										40	40			A												
Sulfuric Acid, 5% boiling										X	X															
Sulfuric Acid, 10%	H2SO4		80					70		X	X	40		120		95	B	A					60	85	100	X
Sulfuric Acid, 10% boiling										X	X															
Sulfuric Acid, 30%	H2SO4		65						20	X	X	40		120		95	B	B					60	85		
Sulfuric Acid, 50%	H2SO4		80	20						X	X	40	X	120	X	95	B	B					60	85	120	
Sulfuric Acid, 50% boiling										X	X															
Sulfuric Acid, 60%	H2SO4		60							X	X	X		120		95	B	B					60	85		
Sulfuric Acid, 70%	H2SO4		60	20						X	X	X		95		95	B	B					60	85		
Sulfuric Acid, 80%	H2SO4		X							X	X	X		95		95	C	C					X	85		
Sulfuric Acid, 90%	H2SO4		X							X	X	X		95		95	C	C					X	20	120	
Sulfuric Acid, 95%	H2SO4		X							X	X	X		95		95	C	C					X	20		
Sulfuric Acid, 98%	H2SO4		65				X			X	X	X		95		95	B	C					X	X	120	
Sulfuric Acid, fuming	H2SO4		X							X	X	X		95		40	C	C					X	X		
Sulfurous Acid	H2SO3		80	X							A	X	C	150	X	80	B	A					60	80	100	
Sulfurous Acid, 5%										40	40															
Syrup (Sucrose in water)																	A									
Tall Oil (Tallol, liquid rosin)			80									95		120		150	A	A					60	95	150	
Tallow (Animal Fat)			0.86								X						A									
Tannic Acid	C14H10O9		80	20						60	60	40	A	120	C	40	A	A					60	95	150	
Tanning Liquors			20									40		120		95	A	A					60	85	120	
Tar			X							A	A	X		120		85	B	A					X	X	150	
Tartaric Acid (Dihydroxy-Succinic Acid)	HO2C(CHOH)2CO2H		65	20						A	A	20	C	120	A	80	A	A					60	80	120	
Terpentine			40	65	65	65	65	65						A												A
Tetrachlorethane	CHCl2CHCl2		90	20	90	90	90	20				X	X	175		20	A	A					X	X		A
Tetraethyl Lead	Pb(C2H5)4		20									X		120		65							20	20	150	
Tetrahydrofuran (THF)	C4H8O		20	20						A	A	X	C			X	A	A					X	X	X	
Tetralinä (Tetrahydronapthalene)	C10H12											X		95		20	A	A	A				X	X		
Thionyl Chloride	SOCl2											X		95									X	X	50	
Thread Cutting Oils			50									20		150		20							60	20	150	
Titanium Tetrachloride	TiCl4											X		95		65	B	B	A				X	X		
Titanous Sulfate	Ti2(SO4)3		80											120									60	80		
Toluene	CH3C6H5		0.9	50	20	20	110	20	A	A	X	X		95	X	20	A	A	A				X	X	20	A
Tomato Juice			65									65		175		95	A	A					60	90	100	


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Chemical Resistance Recommendations

Filtermat Belgium Winninglaan 17, B-9140 Temse Tel +32-3-710.65.50 Fax +32-3-710.65.58 info@filtermat.be www.filtermat.be				SP Grav	Polypropylene	Polyester	Polyamide	Aramid (Nomex)	Wool	Cotton	Viscose/Phenolic	NBR	EPDM	PTFE	Silicone	FPM (Viton)	SS-316	SS-304	CST	Hastelloy C4	SAN	PVC	CPVC	E-CTFE (HALAR)	PVDF		
Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																									
Transformer Oil (Liquid Insulators)			50	20								80	X	150	C	80	A	A							60	85	100
Tributyl Phosphate	(C4H9)3PO4		20									X		60		X									X	X	50
Trichloroacetic Acid	CCl3COOH		40									20		60		80									20	20	50
Trichloroethane (Methyl Chloroform)	CHCl2CH2Cl		X									X		95		80	A	A						X	X	A	
Trichloroethylene	CHCl:CCl2		X	20	20	20	65	A	A	X	X	95	X	95	X	95								X	X	20	A
Trichloropropane	C3H5Cl3																A	A									
Tricresyl Phosphate (TCP)	(CH3C6H4O)3PO		20	C	C						X		A			A	A						X	X	100	A	
Triethanolamine (TEA)	(HOCH2CH2)3N		20	20				A	A	20	C				X	A	A	A						20	X	20	
Triethyl Phosphate (TEP)	(C2H5)3PO4	0.20		20												A										100	
Triethylamine	(C2H5)3N		X									60				95								60	20	50	
Trifluoroethane			20	20	20	20	20						A														A
Triphenylamine																											
Trisodium Phosphate (Sodium Phosphate, Tribasic)	Na3PO4		80	20								95	A	175		95	A	A						60	85		
Turbine Oil			20									20		120		60	A	A						20	20		
Turpentine	C10H16	0.9	20	20				A	A	40	X	150	X	80	A	A		B					X	20	150		
Urea	CO(NH2)2											60		120		80								60	80	100	
Urea Formaldehyd Resins										A	A																
Urine			80									40		175		80	A	A	B					60	80	A	
Vanilla Extract								A	A																		
Varnish			X	120	65	120	65	A	A	20	X	120	X	20	A	A											A
Vaseline			80									60		150		20								60	80	150	
Vegetable Oil			85	90	90	150	90	A	A	40	X	150	A	150	A	A							60	65		A	
Vinegar (4-8% Acetic Acid)			65							40		X	A	150	A	80	A	A	X					60	65		
Vinyl Acetate	CH3CO2CHCH2	0.93									100	20		150		80		A					X	X	50		
Vinyl Chloride	CH2CHCl										A												X	X			
Vinyl Ether	CH2CHOCHCH2	0.77	X																				X	X			
Water Acid Mine			65									80				80	A	A					60	85	150		
Water Deionized	H2O		80									80		205		60	A	A					60	85			
Water Demineralized	H2O		80									95		205		80	A	A					60	85	150		
Water Distilled	H2O		80									80		205		60	A	A					60	85	150		
Water Potable	H2O		A	A	A	A	A	105	A	80		205		60	A	B		A					60	85		A	
Water, Salt			A	100								80	A	205	A	80	B	B					60	85	150		
Water, Sewage			80									80		205		80	A	A					60	85	150		
Waxes (Furniture or Floor)										A	A																
Whey																	A										
Whiskey		0.9	20	75	20	20	75	A	X	80	A	175	A	80	A	A							60	85	150	A	
White Liquor			80									60		175		80	A	A					60	85	100		
Wines			20	20	20	20	75	A	X	80	A	150	A	80	A	A							60	85	100	A	
Xylene	C6H4(CH3)2	0.9	X	150	65	140	90	A		X	X	175	X	80	A	A	A	A					X	X	50	B	
Zinc Acetate	Zn(C2H3O2)2		80											175		20	A	A					60	80			
Zinc Bromide	ZnCO3									X		40															
Zinc Bromide < 3%										100	100																

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Chemical Name	Formula	A=excellent B=good, minor effects C=fair, moderate effects X=unsuitable, not recommended "-"=not tested 10/20=concentration/temperature 150=max. operating temperature																										
Zinc Chloride	ZnCl ₂		A	70/80	X	X		3/65	X			20		175		95	X	X							60	85	150	A
Zinc Chloride < 3%										100	100																	
Zinc Cyanide										A	X																	
Zinc Hydroxide																												
Zinc Nitrate	Zn(NO ₃) ₂		80									60		175		95									60	85	150	
Zinc Sulfate	ZnSO ₄	2	80							X		60	A	205		95	A	A						60	85	150		
Zinc Sulfate < 3%										100	100																	