

PC Chemical resistance

ACID	CONCENTRATION	ROOM TEMPERATURE (23° C, 50 RH)	ELEVATED TEMPERATURE (73° C, 50 RH)
Acetic acid (CH ₃ COOH)	5 %	good	n.d.
	10 %	good	poor
	50 %	good	poor
	70 %	poor	poor
	glacial	poor	poor
Benzoic acid (C ₆ H ₅ COOH)	10 %	fair/poor	poor
Borium acid (H ₃ BO ₃)	n.d.	good	n.d.
Chromic acid (CrO ₃)	10 %	good	n.d.
Citric Acid (HOOC) ₃ (CH ₂) ₂ COH	10 %	good	n.d.
Formic Acid (HCOOH)	10 %	good	n.d.
	40 %	-	poor
	70 %	fair	poor
	97-99 %	poor	poor
Hydrochloric acid (HCl)	10 %	good	n.d.
	20 %	fair	n.d.
	35 %	poor	n.d.
Hydrogen fluoride HF	conc.	good/fair	n.d.
Lactic acid (CH ₃ CHOHCOOH)	85 %	good	n.d.
Nitric acid (HNO ₃)	10 %	good	good
	50 %	fair/poor	poor
	70 %	poor	poor
Oleic acid	-	good	n.d.
Orthophosphoric acid (H ₃ PO ₄)	10 %	good	fair
	100 %	good	good
Oxalic Acid (HOOC ₂ COOH.2H ₂ O)	10 %	good	n.d.
	30 %	n.d.	poor (cracks)
Picric acid	2 %	fair	n.d.
Phosphoric acid	85 %	good	good
Sulphuric acid (H ₂ SO ₄)	70 %	good	good
	90 %	fair	-

ALKALI	CONCENTRATION	ROOM TEMPERATURE (23° C, 50 RH)	ELEVATED TEMPERATURE (73° C, 50 RH)
Ammonium hydroxide (NH ₄ OH)	5%	fair (crazing)	n.d.
	30%	poor	poor
Potassium hydroxide (KOH)	1%	fair (crazing)	n.d.
	conc.	poor	poor
Sodium Carbonate (Na ₂ CO ₃)	15%	good	fair
Sodium Hydroxide (NaOH)	1%	fair (crazing)	n.d.
	conc.	poor	poor

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SALTS	CONCENTRATION	ROOM TEMPERATURE (23° C, 50 RH)	ELEVATED TEMPERATURE (73° C, 50 RH)
Ammonium fluoride	sat.	poor	poor
Ammonium chloride	10 %	good	n.d.
Ammonium sulphate	10%	good	good
Ammonium sulphite	-	poor	n.d.
Ammonium nitrate	10 %	n.d.	good
Aluminium Chloride	sat.	good	poor
Aluminium oxalate	-	good	n.d.
Aluminium sulphate	10 %	good	good
Barium Chloride	10 %	good	good
Barium bromide	10 %	good	good
Calcium Chloride	10 %	good	good
Calcium nitrate	10 %	good	good
Calcium hypochlorite	-	good	n.d.
Cooper Chloride	sat.	good	n.d.
Cooper sulphate	sat.	good	n.d.
Iron Chloride	sat.	good	good
Iron sulphate	10 %	good	n.d.
Magnesium Chloride	10 %	good	good
Magnesium Sulphate	sat.	good	n.d.
Nickel/Zinc Sulphate	sat.	good	n.d.
Potassium Bromide	sat.	good	n.d.
Potassium Carbonate	sat.	good	n.d.
Potassium Cyanite	-	poor	n.d.
Potassium Chloride	sat.	good	n.d.
Potassium Chromate	sat.	good	n.d.
Potassium Manganate	10 %	good	good
Potassium Nitrate	sat.	good	n.d.
Potassium Sulphate	sat.	good	n.d.
Sodium Chloride	10 %	good	good
Sodium Chlorate	10 %	good	n.d.
Sodium Chromate	10 %	good	good
Sodium Carbonate	10 %	good	n.d.
Sodium Nitrate	10 %	poor	n.d.
Sodium Sulphide	10 %	good	good
Sodium Sulphate	10 %	good	good

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ALCOHOLS	CONCENTRATION	ROOM TEMPERATURE (23° C, 50 RH)	ELEVATED TEMPERATURE (73° C, 50 RH)
Allyl alcohol	-	fair	n.d.
Amyl alcohol	-	good	fair
Benzyl alcohol	-	poor	n.d.
Butyl alcohol	-	good	good
Iso-octyl alcohol	-	good	n.d.
Isopropyl alcohol	-	fair	fair
Phenyl-ethyl alcohol	-	poor	n.d.
Propargyl alcohol	-	good	n.d.
Dowanol PM	-	poor	n.d.
Ethanol	90 %	good	good
	100 %	poor	poor
2-amino-ethanol	-	n.d.	poor
Methanol	-	poor	poor
Cyclohexanol	-	fair	fair
Glycerine	-	fair	n.d.
(di) ethylene glycol	-	good	good
Butylene glycol	-	good	n.d.

ESTER/ETHER	CONCENTRATION	ROOM TEMPERATURE (23° C, 50 RH)	ELEVATED TEMPERATURE (73° C, 50 RH)
Amylacetate	-	n.d.	fair
Butyl acetate	-	n.d.	poor
Butyl phthalate	-	n.d.	fair
Amyl/octyl phthalate	-	poor	n.d.
Ethyl acetate	-	poor	poor
Butyl ether	-	n.d.	fair
Ethyl ether	-	poor	poor
Tetrahydrofuran	-	n.d.	poor

ALDEHYDES/PHENOLS/KETONES	CONCENTRATION	ROOM TEMPERATURE (23° C, 50 RH)	ELEVATED TEMPERATURE (73° C, 50 RH)
Acetaldehyde	-	poor	n.d.
Benzaldehyde	-	n.d.	poor
Formaldehyde	-	n.d.	poor
Furfural	-	n.d.	poor
Acetone	-	poor	poor
Acetophenone	-	n.d.	poor
Cyclohexanone	-	poor	poor
Methyl-ethyl-ketone	-	poor	poor
Methyl-iso-butyl	-	poor	n.d.
Ketone	-	-	-
M-Cresol	-	poor	poor
Phenol	-	poor	poor

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HYDROCARBONS	CONCENTRATION	ROOM TEMPERATURE (23° C, 50 RH)	ELEVATED TEMPERATURE (73° C, 50 RH)
Benzene	-	poor	poor
Cyclohexane	-	good	fair
Cyclohexene	-	poor	n.d.
Heptane	-	good	good
Hexane	-	good	good
Isooctane	-	poor	n.d.
Solvent Naphtha	-	fair	n.d.
Butane, Propane	-	good	n.d.
Pentane	-	good	n.d.
Styrene	-	poor	n.d.
Toluene	-	poor	poor
Xylene	-	poor	poor

HALOGENATED ORGANICS	CONCENTRATION	ROOM TEMPERATURE (23° C, 50 RH)	ELEVATED TEMPERATURE (73° C, 50 RH)
Acetylchloride	-	n.d.	poor
Benzylchloride	-	n.d.	poor
Carbon tetrachloride	-	poor	poor
Chlorobenzene	-	poor	poor
2-chloroethanol	-	n.d.	poor
2-chloroethane	-	poor	poor
3-chloroethane	-	poor	poor
4-chloroethane	-	poor	poor
3-chloroethene	5 %	poor	n.d.
Chloroform	-	poor	poor
Chlorophenol	-	n.d.	fair
Epichlorohydrin	-	n.d.	poor
Ethylene chloride	-	n.d.	poor
Methylenen chloride	-	poor	poor
Bromobenzene	-	poor	n.d.
Ethylene bromide	-	poor	n.d.

ORGANIC COMPOUNDS	CONCENTRATION	ROOM TEMPERATURE (23° C, 50 RH)	ELEVATED TEMPERATURE (73° C, 50 RH)
Acetone nitrile	-	n.d.	poor
Acrylonitrile	-	poor	n.d.
Benzonitrile	-	n.d.	poor
Nitro benzene	-	poor	poor
Nitromethane	-	n.d.	poor
Aniline	-	poor	poor
N-butylanmine	-	n.d.	poor
Di methyl aniline	-	n.d.	poor
Ethylene diamine	-	n.d.	poor
Morpholine	-	n.d.	poor
Pyridine, Tetraline	-	n.d.	poor
Dekaline	-	good	n.d.
Methylene amine	-	poor	n.d.