SCHMIDT + BARTL

Materials & Chemical Resistance Information

TORLON® 4503

Chemical Designation: POLYAMIDIMID

Norm: PAI 4503

TORLON® 4503

chemical:	acetaldehyde			
chemical formula:	{CH3CHO}			
chemical group:	AL/K	CAS-No.:	75-07-0	Syn-No.:

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
40	%	RT	°C	resistant	
UV	%	RT	°C	resistant	

chemical:	Acetic acid			
chemical formula:	{CH3COOH}			
chemical group:	ORAC	CAS-No.:	64-19-7	Syn-No.:

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
5	%	RT	°C	resistant	
10	%	RT	°C	resistant	
10	%	50	°C	resistant	
20	%	RT	°C	limited resistance	
30	%	RT	°C	limited resistance	
50	%	RT	°C	limited resistance	

chemical:	acetone			
chemical formula:	{CH3COCH3 - C3H6O}			
chemical group:	AL/K	CAS-No.:	67-64-1	Syn-No.:

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
5	%	RT	°C	resistant	
10	%	RT	°C	resistant	
50	%	RT	°C	resistant	

chemical:	**acetone**				
chemical formula:	{CH3COCH3 - C3H6O}				
chemical group:	AL/K	**CAS-No.:**	67-64-1	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Acetonitrile**				
chemical formula:	{CH3CN}				
chemical group:	NITR	**CAS-No.:**	75-05-08	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Acetophenone**				
chemical formula:	{C6H5COCH3}				
chemical group:	ARHC	**CAS-No.:**	98-86-2	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Acetyl chloride**				
chemical formula:	{CH3COCl}				
chemical group:	CFHC	**CAS-No.:**	75-36-5	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Acetylene**				
chemical formula:	{HCCH}				
chemical group:	ALHC	**CAS-No.:**	74-86-2	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Acrylonitrile**				
chemical formula:	{CH2:CHCN }				
chemical group:	NITR	**CAS-No.:**	107-13-1	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	technical pure

chemical:	**Air (at all pressures)**				
chemical formula:	--				
chemical group:	ELSE	**CAS-No.:**	132259-10-0	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Allyl alcohol**				
chemical formula:	{CH2:CHCH2OH}				
chemical group:	ORAC	**CAS-No.:**	107-18-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Aluminium chloride**				
chemical formula:	{AlCl3}				
chemical group:	SALT	**CAS-No.:**	7446-70-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	saturated aqueous solution
10	%	RT	°C	resistant	

chemical:	**Aluminium sulphate**				
chemical formula:	{Al2(SO4)3}				
chemical group:	SALT	**CAS-No.:**	10043-01-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	saturated aqueous solution
5	%	RT	°C	resistant	aqueous

chemical:	**Amines (aliphatic)**				
chemical formula:	--				
chemical group:	AMIN	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	
UV	%	100	°C	not resistant	

chemical:	**Ammonia (anhydrous gas)**				
chemical formula:	{NH3}				
chemical group:	IOBA	**CAS-No.:**	7664-41-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	limited resistance	technical pure
UV	%	100	°C	not resistant	technical pure
UV	%	200	°C	not resistant	technical pure

chemical:	**Ammonia (liquified anhydrous gas)**				
chemical formula:	{NH3}				
chemical group:	IOBA	**CAS-No.:**	7664-41-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical: **Ammonia (liquified anhydrous gas)**
chemical formula: {NH3}
chemical group: IOBA **CAS-No.:** 7664-41-7 **Syn-No.:**

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	70	°C	not resistant	

chemical: **Ammonium bicarbonate**
chemical formula: {NH4HCO3}
chemical group: SALT **CAS-No.:** 1066-33-7 **Syn-No.:**

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	saturated aqueous solution

chemical: **Ammonium carbonate**
chemical formula: {(NH4)2CO3}
chemical group: SALT **CAS-No.:** 506-87-6 **Syn-No.:**

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	saturated aqueous solution
10	%	RT	°C	resistant	aqueous

chemical: **Ammonium chloride**
chemical formula: {NH4CL}
chemical group: SALT **CAS-No.:** 12125-02-9 **Syn-No.:**

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	saturated
10	%	RT	°C	resistant	
35	%	RT	°C	resistant	

chemical: **Ammonium hydroxide**
chemical formula: {NH4OH}
chemical group: IOBA **CAS-No.:** 1336-21-6 **Syn-No.:**

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
1	%	RT	°C	resistant	
10	%	RT	°C	limited resistance	
30	%	RT	°C	not resistant	
UV	%	RT	°C	not resistant	saturated aqueous solution
UV	%	80	°C	not resistant	saturated aqueous solution

chemical:	**Ammonium nitrate (fertilizer)**				
chemical formula:	{NH4NO3}				
chemical group:	SALT	**CAS-No.:**	6484-52-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Ammonium phosphate (fertilizer)**				
chemical formula:	{(NH4)2HPO4}				
chemical group:	SALT	**CAS-No.:**	7783-28-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Ammonium sulphate (fertilizer)**				
chemical formula:	{(NH4)2SO4 - H8N2O4S}				
chemical group:	SALT	**CAS-No.:**	7783-20-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Amyl acetate**				
chemical formula:	{CH3COOC5H11}				
chemical group:	ESTR	**CAS-No.:**	628-73-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	technical pure

chemical:	**Aniline**				
chemical formula:	{C6H5NH2}				
chemical group:	AMIN	**CAS-No.:**	62-53-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Antimony trichloride**				
chemical formula:	{SbCL3}				
chemical group:	SALT	**CAS-No.:**	10025-91-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	
GL	%	150	°C	not resistant	

chemical:	**Aqua regia concentration:HCl/HNO3(65%/35%)=2/1**				
chemical formula:	{HNO3+HCl}				
chemical group:	IOAC	**CAS-No.:**	8007-56-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	
UV	%	100	°C	not resistant	

chemical:	**Argon**				
chemical formula:	{Ar}				
chemical group:	ELSE	**CAS-No.:**	7440-37-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Barium salts**				
chemical formula:	--				
chemical group:	SALT	**CAS-No.:**	7440-39-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

chemical:	**Benzaldehyde**				
chemical formula:	{C6H5CHO}				
chemical group:	AL/K	**CAS-No.:**	100-52-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	

chemical:	**Benzene**				
chemical formula:	{C6H6}				
chemical group:	ARHC	**CAS-No.:**	71-43-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Benzoic acid**				
chemical formula:	{C6H5COOH}				
chemical group:	ORAC	**CAS-No.:**	65-85-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
20	%	RT	°C	not resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	not resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	100	°C	not resistant	

chemical:	**Benzyl alcohol**				
chemical formula:	{C6H5CH2OH}				
chemical group:	ALCO	**CAS-No.:**	100-51-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Benzyl chloride**				
chemical formula:	{C6H5CH2Cl}				
chemical group:	ARHC	**CAS-No.:**	100-44-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Bleaching liquid (12,5% active Cl2)**				
chemical formula:	{NaOCl}				
chemical group:	ELSE	**CAS-No.:**	7681-52-9	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	RT	°C	resistant	

chemical:	**Boracic acid**				
chemical formula:	{H3BO3}				
chemical group:	IOAC	**CAS-No.:**	10043-35-3	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	limited resistance	

chemical:	**Borax**				
chemical formula:	{Na2B4O7}				
chemical group:	SALT	**CAS-No.:**	1303-43-4	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
10	%	RT	°C	limited resistance	

chemical:	**Boron trifluoride**				
chemical formula:	{BF3}				
chemical group:	ELSE	**CAS-No.:**	7637-07-2	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	not resistant	100 % gas

chemical:	**Brakefluid (DIN 53521)**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	60	°C	not resistant	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	125	°C	not resistant	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	150	°C	not resistant	

chemical:	**Bromine (liquid)**				
chemical formula:	{Br2 }				
chemical group:	HALO	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	limited resistance	

chemical:	**Bromine water**				
chemical formula:	{Br-H2O}				
chemical group:	HALO	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
GL	%	RT	°C	limited resistance	

chemical:	**Bromomethane**				
chemical formula:	{CH3Br}				
chemical group:	CFHC	**CAS-No.:**	74-83-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	limited resistance	

chemical:	**Butadiene**				
chemical formula:	{CH2:CHHC:CH2}				
chemical group:	ALHC	**CAS-No.:**	106-99-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Butane**				
chemical formula:	{C4H10}				
chemical group:	ALHC	**CAS-No.:**	106-97-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Butanoic acid**				
chemical formula:	{CH3CH2CH2COOH}				
chemical group:	ORAC	**CAS-No.:**	107-92-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	limited resistance	

chemical:	**Butanol/Butyl alcohol**				
chemical formula:	{C4H9OH}				
chemical group:	ALCO	**CAS-No.:**	71-36-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Butyl acetate**				
chemical formula:	{CH3COOC4H9}				
chemical group:	ESTR	**CAS-No.:**	123-86-4	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Butylamine**				
chemical formula:	{CH3(CH2)3NH2}				
chemical group:	AMIN	**CAS-No.:**	109-73-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Butylene**				
chemical formula:	{C4H8}				
chemical group:	ALHC	**CAS-No.:**	25167-67-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Butyrolactone**				
chemical formula:	{C4H6O2}				
chemical group:	OTHC	**CAS-No.:**	96-48-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Calcium carbonate**				
chemical formula:	{CaCO3}				
chemical group:	SALT	**CAS-No.:**	471-34-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

chemical:	**Calcium chloride**				
chemical formula:	{CaCl2}				
chemical group:	SALT	**CAS-No.:**	10043-52-4	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
5	%	RT	°C	resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Calcium hydroxide**				
chemical formula:	{Ca(OH)2}				
chemical group:	IOBA	**CAS-No.:**	1305-62-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	

chemical:	**Calcium hypochlorite**				
chemical formula:	{Ca(OCl)2}				
chemical group:	SALT	**CAS-No.:**	7778-54-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

chemical:	**Calcium salts**				
chemical formula:	--				
chemical group:	SALT	**CAS-No.:**	7440-70-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

chemical:	**Carbon dioxide moist**				
chemical formula:	{CO2}				
chemical group:	ELSE	**CAS-No.:**	124-38-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Carbon disulphide**				
chemical formula:	{CS2}				
chemical group:	ELSE	**CAS-No.:**	75-15-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Carbonic acid**				
chemical formula:	{H2CO3}				
chemical group:	IOAC	**CAS-No.:**	463-79-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
--	%	RT	°C	limited resistance	

chemical:	**Cellulose acetate**				
chemical formula:	--				
chemical group:	ESTR	**CAS-No.:**	9004-35-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Chlorine gas (dry)**				
chemical formula:	{Cl2}				
chemical group:	HALO	**CAS-No.:**	7782-50-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Chlorine gas (wet)**				
chemical formula:	{Cl2}				
chemical group:	HALO	**CAS-No.:**	7782-50-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
97	%	RT	°C	limited resistance	

chemical:	**Chlorine water - Cl-water**				
chemical formula:	{Cl2 IN H2O}				
chemical group:	HALO	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	

chemical:	**Chloroacetic acid**				
chemical formula:	{CH2ClCOOH}				
chemical group:	ORAC	**CAS-No.:**	79-11-8	**Syn-No.:**	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	not resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	75	°C	not resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	100	°C	not resistant	

chemical:	**Chlorobenzene**				
chemical formula:	{C6H5Cl}				
chemical group:	ARHC	**CAS-No.:**	108-90-7	**Syn-No.:**	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	75	°C	limited resistance	

chemical:	**Chlorodifluoroethane**				
chemical formula:	{C2H3F2Cl}				
chemical group:	CFHC	**CAS-No.:**	25497-29-4	**Syn-No.:**	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Chlorodifluoromethane (R-22)**				
chemical formula:	{CHF2Cl}				
chemical group:	CFHC	**CAS-No.:**	75-45-6	**Syn-No.:**	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Chlorofluorocarbons (CFC)**				
chemical formula:	{FCKW}				
chemical group:	CFHC	**CAS-No.:**	--	**Syn-No.:**	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	RT	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	50	°C	not resistant	

chemical:	**Chloroform**				
chemical formula:	{CHCl3}				
chemical group:	CFHC	**CAS-No.:**	67-66-3	**Syn-No.:**	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Chlorohydric acid**				
chemical formula:	{HCl}				
chemical group:	IOAC	**CAS-No.:**	7647-01-0	**Syn-No.:**	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
1	%	RT	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
2	%	RT	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
10	%	RT	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
10	%	60	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
20	%	RT	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
30	%	RT	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	not resistant	

chemical:	**Chloromethane**				
chemical formula:	{CH3Cl}				
chemical group:	CFHC	**CAS-No.:**	74-87-3	**Syn-No.:**	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	limited resistance	

chemical:	**Chlorosulfonic acid**				
chemical formula:	{HSO3Cl}				
chemical group:	IOAC	**CAS-No.:**	7790-94-5	**Syn-No.:**	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	not resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	50	°C	not resistant	

chemical:	**Chromic acid**				
chemical formula:	{CrO3+H2O (H2CrO4)}				
chemical group:	IOAC	**CAS-No.:**	7738-94-5	**Syn-No.:**	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
1	%	RT	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
10	%	RT	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
50	%	RT	°C	not resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	not resistant	technical pure

chemical:	**Chromic acid**				
chemical formula:	{CrO3+H2O (H2CrO4)}				
chemical group:	IOAC	**CAS-No.:**	7738-94-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	100	°C	not resistant	technical pure

chemical:	**Citric acid**				
chemical formula:	{C3H4OH(COOH)3}				
chemical group:	ORAC	**CAS-No.:**	77-92-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	
50	%	RT	°C	resistant	
50	%	100	°C	limited resistance	

chemical:	**Copper chloride**				
chemical formula:	{CuCl2}				
chemical group:	SALT	**CAS-No.:**	7447-39-4	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

chemical:	**Copper sulphate**				
chemical formula:	{CuSO4}				
chemical group:	SALT	**CAS-No.:**	7758-98-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

chemical:	**Cyclohexane**				
chemical formula:	{C6H12}				
chemical group:	OTHC	**CAS-No.:**	110-82-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Cyclohexanol**				
chemical formula:	{C6H11OH}				
chemical group:	ALCO	**CAS-No.:**	108-93-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Cyclohexanone**				
chemical formula:	{C6H10 O}				
chemical group:	ETHR	**CAS-No.:**	108-94-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Diaminoethane**				
chemical formula:	{NH2C2H4NH2}				
chemical group:	AMIN	**CAS-No.:**	107-15-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	75	°C	not resistant	

chemical:	**Dibutyl phthalate**				
chemical formula:	{C6H4[COOC4H9]2 - C16H22O4}				
chemical group:	ESTR	**CAS-No.:**	84-74-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Dichlorodifluoromethane (R-12)**				
chemical formula:	{CF2Cl2}				
chemical group:	CFHC	**CAS-No.:**	75-71-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Dichloroethylene**				
chemical formula:	{CH2CCl2 - C2H2Cl2}				
chemical group:	CFHC	**CAS-No.:**	540-59-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	technical pure

chemical:	**Dichlorotetrafluoroethane (R-114)**				
chemical formula:	{C2F4Cl2}				
chemical group:	CFHC	**CAS-No.:**	1320-37-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Diesel (DIN 51601)**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Diethyl ether**				
chemical formula:	{C2H5OC2H5 - CH2Cl2}				
chemical group:	ETHR	**CAS-No.:**	60-29-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Diethylamine**				
chemical formula:	{(C2H5)2NH}				
chemical group:	AMIN	**CAS-No.:**	109-89-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	125	°C	not resistant	

chemical:	**Diethylene glycol**				
chemical formula:	{O(C2H4OH)2 - C4H10O3}				
chemical group:	ALCO	**CAS-No.:**	111-46-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Diisopropyl ether**				
chemical formula:	{(CH3)2CHOCH(CH3)2}				
chemical group:	ETHR	**CAS-No.:**	108-20-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Dimethyl ether**				
chemical formula:	{CH3OCH3 - C2H6O}				
chemical group:	ETHR	**CAS-No.:**	115-10-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	limited resistance	

chemical:	**Dimethylacetamide**				
chemical formula:	{CH3CON(CH3)2}				
chemical group:	AMID	**CAS-No.:**	127-19-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	**Dioxane**				
chemical formula:	{C4H8O2}				
chemical group:	ETHR	**CAS-No.:**	123-91-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Epichlorohydrine**				
chemical formula:	{C3H5ClO}				
chemical group:	ETHR	**CAS-No.:**	106-89-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Ethane**				
chemical formula:	{C2H6}				
chemical group:	ALHC	**CAS-No.:**	74-84-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Ethanol**				
chemical formula:	{C2H5OH}				
chemical group:	ALCO	**CAS-No.:**	64-17-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
40	%	RT	°C	resistant	
96	%	RT	°C	resistant	

chemical:	**Ethene**				
chemical formula:	{C2H4}				
chemical group:	ALHC	**CAS-No.:**	74-85-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	
UV	%	RT	°C	resistant	

chemical:	**Ethyl acetate**				
chemical formula:	{CH3COOC2H5}				
chemical group:	ESTR	**CAS-No.:**	141-78-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Ethyl chloride**				
chemical formula:	{C2H5Cl}				
chemical group:	CFHC	**CAS-No.:**	75-00-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Ethylene glycol**				
chemical formula:	{CH2OHCH2OH}				
chemical group:	ALSO	**CAS-No.:**	107-21-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Ethylene oxide**				
chemical formula:	{C2H4O}				
chemical group:	OTHC	**CAS-No.:**	75-21-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Fat (vegetable oil)**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Fatty acids**				
chemical formula:	{>C6}				
chemical group:	ORAC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
5	%	RT	°C	resistant	

chemical:	**Fluorine**				
chemical formula:	{F2}				
chemical group:	HALO	**CAS-No.:**	7782-41-4	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	**Formaldehyde**				
chemical formula:	{HCHO}				
chemical group:	AL/K	**CAS-No.:**	50-00-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
30	%	RT	°C	resistant	

chemical:	**Formic acid**				
chemical formula:	{HCOOH}				
chemical group:	ORAC	**CAS-No.:**	64-18-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
2	%	RT	°C	not resistant	

chemical:	**Fruit juices**				
chemical formula:	--				
chemical group:	ELSE	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Fuel oil DIN 51603 (test mixture A20-NPII)**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Furfural**				
chemical formula:	{C4H3OCHO}				
chemical group:	ALCO	**CAS-No.:**	98-01-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	limited resistance	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	75	°C	not resistant	

chemical:	**Glycerin**				
chemical formula:	{CHOH(CH2OH)2}				
chemical group:	OTHC	**CAS-No.:**	56-81-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Helium**				
chemical formula:	{He}				
chemical group:	ELSE	**CAS-No.:**	7440-59-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Heptane**				
chemical formula:	{CH3(CH2)5CH3}				
chemical group:	ALHC	**CAS-No.:**	142-82-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Hexafluorosilicic acid**				
chemical formula:	{H2SiF6}				
chemical group:	IOAC	**CAS-No.:**	16961-83-4	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
30	%	RT	°C	not resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
30	%	60	°C	not resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	100	°C	not resistant	

chemical:	**Hexane**				
chemical formula:	{CH3(CH2)4CH3}				
chemical group:	ALHC	**CAS-No.:**	110-54-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Hydraulic fluid**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Hydrobromic acid**				
chemical formula:	{HBr}				
chemical group:	IOAC	**CAS-No.:**	10034-10-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	
UV	%	RT	°C	not resistant	

chemical:	**Hydrochloric acid**				
chemical formula:	{HCl]}				
chemical group:	IOAC	**CAS-No.:**	7647-01-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
1	%	RT	°C	resistant	
2	%	RT	°C	resistant	
10	%	RT	°C	resistant	
10	%	60	°C	resistant	
20	%	RT	°C	resistant	
30	%	RT	°C	resistant	
UV	%	RT	°C	not resistant	

chemical:	**Hydrofluoric acid**				
chemical formula:	{HF}				
chemical group:	IOAC	**CAS-No.:**	7664-39-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	RT	°C	not resistant	
50	%	50	°C	not resistant	
UV	%	RT	°C	not resistant	

chemical:	**Hydrogen**				
chemical formula:	{H2}				
chemical group:	ELSE	**CAS-No.:**	1333-74-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Hydrogen bromide**				
chemical formula:	{HBr}				
chemical group:	IOAC	**CAS-No.:**	10034-10-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	
UV	%	RT	°C	not resistant	

chemical:	**Hydrogen dioxide**				
chemical formula:	{H2O2}				
chemical group:	ELSE	**CAS-No.:**	7722-84-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
30	%	RT	°C	limited resistance	
50	%	RT	°C	not resistant	
UV	%	RT	°C	not resistant	

chemical:	**Inert gases (Argon, Helium, Neon, ...)**				
chemical formula:	--				
chemical group:	ELSE	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Iron(II)-chloride**				
chemical formula:	{FeCl2}				
chemical group:	SALT	**CAS-No.:**	7758-94-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	
5	%	RT	°C	resistant	
10	%	RT	°C	resistant	

chemical:	**Iron(III)-chloride**				
chemical formula:	{FeCl3}				
chemical group:	SALT	**CAS-No.:**	7705-08-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	

chemical:	**Iron(III)-chloride**				
chemical formula:	{FeCl3}				
chemical group:	SALT	**CAS-No.:**	7705-08-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
5	%	RT	°C	resistant	
10	%	RT	°C	resistant	

chemical:	**Isobutyl acetate**				
chemical formula:	{CH3COOCH2CH(CH3)2 - C6H12O2}				
chemical group:	ESTR	**CAS-No.:**	110-19-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	
TR	%	RT	°C	resistant	

chemical:	**Isopropanol**				
chemical formula:	{CH3CH(OH)CH3}				
chemical group:	ALCO	**CAS-No.:**	67-63-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Isopropyl acetate**				
chemical formula:	{CH3COOCH(CH3)2}				
chemical group:	ESTR	**CAS-No.:**	108-21-4	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Kerosene**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	8008-20-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Ketones (aliphatic)**				
chemical formula:	{RCOR}				
chemical group:	AL/K	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Lactic acid**				
chemical formula:	{CH3CHOHCOOH}				
chemical group:	ORAC	**CAS-No.:**	50-21-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Lactic acid**				
chemical formula:	{CH3CHOHCOOH}				
chemical group:	ORAC	**CAS-No.:**	50-21-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	60	°C	resistant	
60	%	150	°C	resistant	
90	%	RT	°C	resistant	
90	%	60	°C	resistant	
UV	%	RT	°C	resistant	
UV	%	100	°C	resistant	

chemical:	**Lead acetate**				
chemical formula:	{Pb(C2H3O2)2 . 3H2O}				
chemical group:	SALT	**CAS-No.:**	301-4-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	limited resistance	

chemical:	**Linseed oil**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	8001-26-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Lubricating greases**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	74869-21-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Lubricating oils**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	74869-22-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Magnesium chloride**				
chemical formula:	{MgCl2}				
chemical group:	SALT	**CAS-No.:**	7786-30-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

chemical:	**Magnesium chloride**				
chemical formula:	{MgCl2}				
chemical group:	SALT	**CAS-No.:**	7786-30-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Magnesium hydroxide**				
chemical formula:	{Mg(OH)2}				
chemical group:	IOBA	**CAS-No.:**	1309-42-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
10	%	RT	°C	not resistant	

chemical:	**Magnesium salts**				
chemical formula:	--				
chemical group:	SALT	**CAS-No.:**	7439-95-4	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
10	%	RT	°C	resistant	

chemical:	**Methane**				
chemical formula:	{CH4}				
chemical group:	ALHC	**CAS-No.:**	74-82-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Methyl acetate**				
chemical formula:	{CH3COOCH3 - C3H6O2}				
chemical group:	ESTR	**CAS-No.:**	79-20-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Methyl cyanide**				
chemical formula:	{CH3CN}				
chemical group:	NITR	**CAS-No.:**	75-05-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Methyl ethyl ketone**				
chemical formula:	{CH3COC2H5 - C4H8O}				
chemical group:	AL/K	**CAS-No.:**	78-93-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Methyl ethyl ketone**				
chemical formula:	{CH3COC2H5 - C4H8O}				
chemical group:	AL/K	**CAS-No.:**	78-93-3	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
20	%	RT	°C	resistant	

chemical:	**Methylene chloride**				
chemical formula:	{CH2Cl2}				
chemical group:	CFHC	**CAS-No.:**	75-09-2	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	limited resistance	

chemical:	**Mineral oils**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	RT	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	RT	°C	resistant	

chemical:	**Morpholine**				
chemical formula:	{C4H9NO}				
chemical group:	ARHC	**CAS-No.:**	110-91-8	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Naphtha**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	8030-30-6	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	RT	°C	resistant	

chemical:	**Naphthalene**				
chemical formula:	{C10H8}				
chemical group:	ARHC	**CAS-No.:**	91-20-3	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	resistant	

chemical:	**Natural gas**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	RT	°C	resistant	

chemical:	**Neon**				
chemical formula:	{Ne}				
chemical group:	ELSE	**CAS-No.:**	7740-01-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Nickel salts**				
chemical formula:	--				
chemical group:	SALT	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Nitrobenzene**				
chemical formula:	{C6H5NO2}				
chemical group:	ARHC	**CAS-No.:**	98-95-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Nitrogen**				
chemical formula:	{N2}				
chemical group:	ELSE	**CAS-No.:**	7727-37-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Nitrogen monoxides**				
chemical formula:	{NO/NO2}				
chemical group:	ELSE	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	**Octadecenoic acid (9-)**				
chemical formula:	{CH3(CH2)7CHCH(CH2)7COOH - C18H34O2}				
chemical group:	ORAC	**CAS-No.:**	112-80-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Octane (n-)**				
chemical formula:	{C8H18}				
chemical group:	ALHC	**CAS-No.:**	111-65-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Oils (ethereal)**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Oils (vegetable, mineral)**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Oleum (Concentration 80:20 %)**				
chemical formula:	{H2SO4+SO3}				
chemical group:	IOAC	**CAS-No.:**	8014-95-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	**Oxalic acid**				
chemical formula:	{HOOCCOOH}				
chemical group:	ORAC	**CAS-No.:**	144-62-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

chemical:	**Oxygen**				
chemical formula:	{O2}				
chemical group:	ELSE	**CAS-No.:**	7782-44-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Ozone**				
chemical formula:	{O3}				
chemical group:	ELSE	**CAS-No.:**	10028-15-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	

chemical:	**Palmitic acid**				
chemical formula:	{C15H31COOH}				
chemical group:	ORAC	**CAS-No.:**	57-10-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Paraffin waxes**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	8002-74-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Paraffine oil**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	8012-95-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Pentanol (n-)**				
chemical formula:	{C5H11OH - C5H12O}				
chemical group:	ALCO	**CAS-No.:**	71-41-0	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	technical pure

chemical:	**Pentyl acetate Synonym Amyl acetate**				
chemical formula:	{CH3COOC5H11}				
chemical group:	ESTR	**CAS-No.:**	628-63-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Petrol, normal (DIN 53521)**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	8006-61-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	85	°C	resistant	

chemical:	**Petrol, super (DIN 53521)**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	60	°C	resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	85	°C	resistant	

chemical:	**Petrol, unleaded**				
chemical formula:	{from C5H12 up to C12H26}				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Petroleum**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	8002-05-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Phenol**				
chemical formula:	{C6H5OH}				
chemical group:	PHEN	**CAS-No.:**	108-95-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	
UV	%	40	°C	resistant	

chemical:	**Phosphoric acid**				
chemical formula:	{H3PO4}				
chemical group:	IOAC	**CAS-No.:**	7664-38-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
1	%	RT	°C	resistant	
3	%	RT	°C	resistant	
10	%	RT	°C	resistant	
25	%	RT	°C	not resistant	
25	%	60	°C	not resistant	
50	%	RT	°C	not resistant	
50	%	100	°C	not resistant	
50	%	200	°C	not resistant	
85	%	RT	°C	not resistant	
85	%	60	°C	not resistant	
85	%	100	°C	not resistant	

chemical:	**Phosphorous trichloride**				
chemical formula:	{PCl3}				
chemical group:	ELSE	**CAS-No.:**	7719-12-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	**Phthalic acid**				
chemical formula:	{C6H4(COOH)2}				
chemical group:	ORAC	**CAS-No.:**	88-99-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	

chemical:	**Potassium acetate**				
chemical formula:	{KC2H3O2}				
chemical group:	SALT	**CAS-No.:**	127-08-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	

chemical:	**Potassium bromide**				
chemical formula:	{KBr}				
chemical group:	SALT	**CAS-No.:**	7758-02-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
10	%	RT	°C	resistant	

chemical:	**Potassium carbonate**				
chemical formula:	{K2CO3}				
chemical group:	SALT	**CAS-No.:**	584-08-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	
Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
GL	%	50	°C	resistant	

chemical:	**Potassium chlorate**				
chemical formula:	{KClO3}				
chemical group:	SALT	**CAS-No.:**	3811-04-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	

chemical:	**Potassium chloride**				
chemical formula:	{KCl}				
chemical group:	SALT	**CAS-No.:**	7447-40-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

chemical:	**Potassium chloride**				
chemical formula:	{KCl}				
chemical group:	SALT	**CAS-No.:**	7447-40-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Potassium dichromate**				
chemical formula:	{K2Cr2O7}				
chemical group:	SALT	**CAS-No.:**	7778-50-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	
5	%	RT	°C	resistant	

chemical:	**Potassium hydroxide**				
chemical formula:	{KOH}				
chemical group:	IOBA	**CAS-No.:**	1310-58-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	not resistant	
10	%	60	°C	not resistant	
20	%	RT	°C	not resistant	
20	%	60	°C	not resistant	
25	%	120	°C	not resistant	

chemical:	**Potassium nitrate**				
chemical formula:	{KNO3}				
chemical group:	SALT	**CAS-No.:**	7757-79-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	not resistant	
50	%	RT	°C	not resistant	

chemical:	**Potassium permanganate**				
chemical formula:	{KMnO4}				
chemical group:	SALT	**CAS-No.:**	7722-64-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	saturated aqueous solution
1	%	RT	°C	resistant	

chemical:	**Potassium permanganate**				
chemical formula:	{KMnO4}				
chemical group:	SALT	**CAS-No.:**	7722-64-7	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
10	%	60	°C	resistant	

chemical:	**Potassium sulphate**				
chemical formula:	{K2SO4}				
chemical group:	SALT	**CAS-No.:**	7778-80-5	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
GL	%	RT	°C	limited resistance	

chemical:	**Potassium sulphide**				
chemical formula:	{K2S}				
chemical group:	SALT	**CAS-No.:**	1312-73-8	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
50	%	RT	°C	not resistant	

chemical:	**Propane gaseous**				
chemical formula:	{C3H8}				
chemical group:	ALHC	**CAS-No.:**	74-98-6	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	resistant	

chemical:	**Propanol (n-)**				
chemical formula:	{C3H7OH - C3H8O}				
chemical group:	ALCO	**CAS-No.:**	71-23-8	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	resistant	

chemical:	**Propene**				
chemical formula:	{C3H6}				
chemical group:	ALHC	**CAS-No.:**	115-07-1	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Propyl acetate**				
chemical formula:	{C3H7OOCCH3}				
chemical group:	ESTR	**CAS-No.:**	109-60-4	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	50	°C	resistant	

chemical:	**Propylene glycol**				
chemical formula:	{CH3CHOHCH2OH}				
chemical group:	ALCO	**CAS-No.:**	57-55-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Pyridine**				
chemical formula:	{N(CH)5}				
chemical group:	AMIN	**CAS-No.:**	110-86-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
TR	%	60	°C	not resistant	
TR	%	80	°C	not resistant	

chemical:	**Salicylic acid**				
chemical formula:	{C6H4(OH)(COOH)}				
chemical group:	ORAC	**CAS-No.:**	69-72-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	

chemical:	**Silicone oil**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	80	°C	resistant	

chemical:	**Silver nitrate**				
chemical formula:	{AgNO3}				
chemical group:	SALT	**CAS-No.:**	7761-88-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	
50	%	RT	°C	resistant	

chemical:	**Sodium acetate**				
chemical formula:	{NaC2H3O2; CH3COONa}				
chemical group:	SALT	**CAS-No.:**	127-09-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	
45	%	RT	°C	resistant	
60	%	RT	°C	resistant	

chemical:	**Sodium bicarbonate**				
chemical formula:	{NaHCO3}				
chemical group:	SALT	**CAS-No.:**	144-55-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Sodium bisulphate**				
chemical formula:	{NaHSO4}				
chemical group:	SALT	**CAS-No.:**	7681-38-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	not resistant	
50	%	RT	°C	not resistant	
50	%	100	°C	not resistant	

chemical:	**Sodium bisulphite**				
chemical formula:	{NaHSO3}				
chemical group:	SALT	**CAS-No.:**	7631-90-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Sodium carbonate**				
chemical formula:	{Na2CO3}				
chemical group:	SALT	**CAS-No.:**	497-19-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	
20	%	RT	°C	resistant	
20	%	80	°C	resistant	

chemical:	**Sodium chlorate**				
chemical formula:	{NaClO3}				
chemical group:	SALT	**CAS-No.:**	7775-09-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
5	%	RT	°C	resistant	
10	%	RT	°C	resistant	

chemical:	**Sodium chloride**				
chemical formula:	{NaCl}				
chemical group:	SALT	**CAS-No.:**	7647-14-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	

chemical:	**Sodium chloride**				
chemical formula:	{NaCl}				
chemical group:	SALT	**CAS-No.:**	7647-14-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Sodium cyanide**				
chemical formula:	{NaCN}				
chemical group:	SALT	**CAS-No.:**	143-33-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	

chemical:	**Sodium dichromate**				
chemical formula:	{Na2Cr2O7}				
chemical group:	SALT	**CAS-No.:**	10588-01-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	not resistant	

chemical:	**Sodium hydroxide**				
chemical formula:	{NaOH}				
chemical group:	IOBA	**CAS-No.:**	1310-73-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
1	%	RT	°C	not resistant	
5	%	80	°C	not resistant	
10	%	RT	°C	not resistant	

chemical:	**Sodium hypochlorite**				
chemical formula:	{NaOCl}				
chemical group:	SALT	**CAS-No.:**	7681-52-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
5	%	RT	°C	resistant	
10	%	RT	°C	resistant	

chemical:	**Sodium nitrate**				
chemical formula:	{NaNO3}				
chemical group:	SALT	**CAS-No.:**	7631-99-4	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	RT	°C	limited resistance	

chemical:	**Sodium phosphate**				
chemical formula:	{Na3PO4}				
chemical group:	SALT	**CAS-No.:**	7601-54-9	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	RT	°C	not resistant	

chemical:	**Sodium salts**				
chemical formula:	--				
chemical group:	SALT	**CAS-No.:**	7440-23-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Sodium silicate**				
chemical formula:	{Na2SiO3}				
chemical group:	SALT	**CAS-No.:**	1344-09-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	

chemical:	**Sodium sulphate**				
chemical formula:	{Na2SO4}				
chemical group:	SALT	**CAS-No.:**	7757-82-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	

chemical:	**Sodium sulphide**				
chemical formula:	{Na2S}				
chemical group:	SALT	**CAS-No.:**	1313-82-2	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
5	%	RT	°C	resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
90	%	RT	°C	limited resistance	

chemical:	**Sodium sulphite**				
chemical formula:	{Na2SO3}				
chemical group:	SALT	**CAS-No.:**	7757-83-7	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
5	%	RT	°C	resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	resistant	

chemical:	**Sodium thiosulphate**				
chemical formula:	{Na2S2O3}				
chemical group:	SALT	**CAS-No.:**	7772-98-7	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
10	%	RT	°C	resistant	

chemical:	**Steam**				
chemical formula:	{H2O}				
chemical group:	ELSE	**CAS-No.:**	7732-18-5	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	>100	°C	not resistant	

chemical:	**Stearic acid**				
chemical formula:	{C17H35COOH}				
chemical group:	ORAC	**CAS-No.:**	57-11-4	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	resistant	

chemical:	**Styrene**				
chemical formula:	{C6H5CH:CH2}				
chemical group:	ARHC	**CAS-No.:**	100-42-5	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	80	°C	resistant	

chemical:	**Sulfur trioxide, traces or liquid or anhydrous or moist**				
chemical formula:	{SO3}				
chemical group:	ELSE	**CAS-No.:**	7446-11-9	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
--	%	RT	°C	limited resistance	

chemical:	**Sulphur**				
chemical formula:	{S}				
chemical group:	ELSE	**CAS-No.:**	7704-34-9	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Sulphur dioxide, dry**				
chemical formula:	{SO2}				
chemical group:	ELSE	**CAS-No.:**	7446-09-5	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Sulphur hexafluoride**				
chemical formula:	{SF6}				
chemical group:	ELSE	**CAS-No.:**	2551-62-4	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	limited resistance	

chemical:	**Sulphurous acid**				
chemical formula:	{H2SO3}				
chemical group:		**CAS-No.:**	7782-99-2	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
GL	%	RT	°C	limited resistance	

chemical:	**Tannic acid**				
chemical formula:	{C76H52O46}				
chemical group:	ORAC	**CAS-No.:**	1401-55-4	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	resistant	

chemical:	**Tartaric acid**				
chemical formula:	{HOOC(CHOH)2COOH}				
chemical group:	ORAC	**CAS-No.:**	87-69-4	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
5	%	RT	°C	limited resistance	

chemical:	**Tetrachlorocarbon**				
chemical formula:	{CCl4}				
chemical group:	CFHC	**CAS-No.:**	56-23-5	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	resistant	

chemical:	**Tetrachloroethylene**				
chemical formula:	{Cl2C:CCl2}				
chemical group:	CFHC	**CAS-No.:**	127-18-4	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	resistant	

chemical:	**Tetrahydrofuran**				
chemical formula:	{C4H8O}				
chemical group:	OTHC	**CAS-No.:**	109-99-9	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	resistant	

chemical:	**Toluene**				
chemical formula:	{C6H5CH3}				
chemical group:	ARHC	**CAS-No.:**	108-88-3	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Tributyl phosphate**				
chemical formula:	{(C4H9)3PO4}				
chemical group:	OTHC	**CAS-No.:**	126-73-8	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Trichloroethane (1,1,1-)**				
chemical formula:	{CH3CCl3}				
chemical group:	CFHC	**CAS-No.:**	71-55-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	

chemical:	**Trichloroethylene**				
chemical formula:	{CHCl:CCl2}				
chemical group:	CFHC	**CAS-No.:**	79-01-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	limited resistance	

chemical:	**Trichlorotrifluoroethane (R-113)**				
chemical formula:	{C2F3Cl3}				
chemical group:	CFHC	**CAS-No.:**	76-13-1	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Triethanolamine**				
chemical formula:	{(HOCH2CH2)3N}				
chemical group:	AMIN	**CAS-No.:**	102-71-6	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	50	°C	not resistant	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	125	°C	not resistant	

chemical:	**Trimethylamine**				
chemical formula:	{(CH3)3N}				
chemical group:	AMIN	**CAS-No.:**	75-50-3	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	not resistant	

chemical:	**Turpentine oil**				
chemical formula:	--				
chemical group:	OTHC	**CAS-No.:**	8006-64-2	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	RT	°C	resistant	

chemical:	**Urea**				
chemical formula:	{(NH2)2CO}				
chemical group:	ELSE	**CAS-No.:**	57-13-6	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
UV	%	RT	°C	limited resistance	

chemical:	**Vaseline**				
chemical formula:	{C22H46 / C23H48}				
chemical group:	OTHC	**CAS-No.:**	8009-03-8	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	RT	°C	resistant	

chemical:	**vinegar**				
chemical formula:	{C2H4O2}				
chemical group:	OTHC	**CAS-No.:**	64-19-7	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
H	%	RT	°C	resistant	

chemical:	**Vinyl acetate**				
chemical formula:	{CH3COOCH:CH2}				
chemical group:	ESTR	**CAS-No.:**	108-05-4	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	resistant	

chemical:	**Vinyl chloride**				
chemical formula:	{CH2CHCl - C2H3Cl}				
chemical group:	CFHC	**CAS-No.:**	75-01-4	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	resistant	

chemical:	**Washing waters**				
chemical formula:	--				
chemical group:	ELSE	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	**Water**				
chemical formula:	{H2O}				
chemical group:	ELSE	**CAS-No.:**	7732-18-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	
UV	%	60	°C	resistant	
UV	%	80	°C	resistant	
UV	%	100	°C	limited resistance	

chemical:	**Water (chlorinated as Drinking)**				
chemical formula:	{H2O}				
chemical group:	ELSE	**CAS-No.:**	7732-18-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	limited resistance	

chemical:	**Water (demineralised)**				
chemical formula:	{H2O}				
chemical group:	ELSE	**CAS-No.:**	7732-18-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	limited resistance	

chemical:	**Water (distilled)**				
chemical formula:	{H2O}				
chemical group:	ELSE	**CAS-No.:**	7732-18-5	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	limited resistance	

chemical:	**Wine & Spirits**				
chemical formula:	--				
chemical group:	ELSE	**CAS-No.:**	--	**Syn-No.:**	

Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	resistant	

chemical:	**Xylene**				
chemical formula:	{C6H4(CH3)2}				
chemical group:	ARHC	**CAS-No.:**	1330-20-7	**Syn-No.:**	

Conc.:	**Value:**	**Temp.:**	**Value:**	**Resistance:**	**Remarks:**
TR	%	RT	°C	resistant	

A: Resistant
B: Partially resistant
C: Non-resistant
O: Dissolves
UD: Undiluted

CA: As commercially available
SS: Saturated aqueous solutions (at 23°C)
RT: Room temperature (15-25°C)

This information will without doubt be a helpful tool when selecting the most suitable plastics material for your application.
Temperature, time of exposure, concentration of the reagents and stress level in the plastic parts all considerably effect the chemical resistance and consequently your material choice.
For example PC, PEI, PSU and PPSU, because of their amorphous chemical structure, are sensitive to “stress cracking” when in contact with polar organic solvents. Environments, which are completely harmless to unstressed parts, may cause stress cracking when in contact with stressed parts (e.g isopropyl alcohol in contact with PSU). Not only the externally applied load is of importance but also the internal stress level plays a big role. Although Schmidt + Bartl GmbH Products stock shapes are annealed using a proprietary stress-relieving cycle to minimize any internal stresses resulting from the manufacturing process, some stresses may remain and new ones may be induced during machining. Therefore, in certain cases thermal treatment (stress relieving) of the plastic parts during or after machining may be necessary in order to keep the internal stress level and thus the risk on cracking as low as possible

It is important to note that this data is only of an indicative nature, derived from all sorts of literature related to the chemical resistance of plastics.
Therefore, in practice it is strongly recommended carrying out tests on a prototype, to determine the final suitability of a plastics material for the application.
Following the assertions outlined in the introduction the attached list should be regarded as a valuable tool for finding the most suitable material for a given application.
Note: The list has been compiled based on ideal and mostly simplified conditions of laboratory testing; real life and field applications are subjected to working conditions that might be defined by more complex factors. Consequently any statement quoted in our chemical resistance list should be regarded as a guiding value.
In particular, we would like to emphasize that such a list -by nature - cannot supply the following information:
- All relevant details of the respective experiment that has been the source for a given set of data
- Possible influence of dynamic effects
- Long-term effects
- Possible influence due to the method of processing, the thermal history as well as the exact formulation of the respective samples
- Behaviour of mixtures of different media or effects based on discontinuous service
- (Detailed) characterisation of the corrosion phenomenon / deterioration observed
- Consideration of all chemicals

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