

Materials & Chemical Resistance Information

ABS

Chemical Designation: Acrylnitril-Butadien-Styrol

Norm: ABS

ABS

chemical:	acetaldehyde				
chemical formula:	{CH ₃ CHO}				
chemical group:	AL/K	CAS-No.:	75-07-0	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	acetone				
chemical formula:	{CH ₃ COCH ₃ - C ₃ H ₆ O}				
chemical group:	AL/K	CAS-No.:	67-64-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	technical pure

chemical:	Acetonitrile				
chemical formula:	{CH ₃ CN}				
chemical group:	NITR	CAS-No.:	75-05-08	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Acetophenone				
chemical formula:	{C ₆ H ₅ COCH ₃ }				
chemical group:	ARHC	CAS-No.:	98-86-2	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Acrylonitrile				
chemical formula:	{CH ₂ :CHCN }				
chemical group:	NITR	CAS-No.:	107-13-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	technical pure

chemical:	Allyl alcohol				
chemical formula:	{CH ₂ :CHCH ₂ OH}				
chemical group:	ORAC	CAS-No.:	107-18-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
96	%	RT	°C	not resistant	

chemical:	Ammonia (anhydrous gas)				
chemical formula:	{NH ₃ }				
chemical group:	IOBA	CAS-No.:	7664-41-7	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	technical pure

chemical:	Ammonium hydroxide				
chemical formula:	{NH ₄ OH}				
chemical group:	IOBA	CAS-No.:	1336-21-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	20	°C	not resistant	aqueous

chemical:	Aniline				
chemical formula:	{C ₆ H ₅ NH ₂ }				
chemical group:	AMIN	CAS-No.:	62-53-3	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Antimony trichloride				
chemical formula:	{SbCl ₃ }				
chemical group:	SALT	CAS-No.:	10025-91-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
90	%	RT	°C	not resistant	

chemical:	Aqua regia concentration:HCl/HNO₃(65%/35%)=2/1				
chemical formula:	{HNO ₃ +HCl}				
chemical group:	IOAC	CAS-No.:	8007-56-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Arsenic acid				
chemical formula:	{H ₃ AsO ₄ }				
chemical group:		CAS-No.:	7778-39-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
80	%	20	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
80	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
80	%	60	°C	resistant	

chemical:	Arsenic acid				
chemical formula:	{H3AsO4}				
chemical group:		CAS-No.:	7778-39-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
80	%	80	°C	not 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	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	not resistant	

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	not 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	not resistant	

chemical:	Benzoic acid				
chemical formula:	{C6H5COOH}				
chemical group:	ORAC	CAS-No.:	65-85-0	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	60	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	80	°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	%	80	°C	not resistant	

SCHMIDT + BARTL GMBH - AUF HERDENEN 30 - 78052 VS-VILLINGEN - TEL: 07721/99130 - FAX 07721/991320

chemical:	Bleaching liquid (0,5 bis 2 ppm active Cl2)				
chemical formula:	{NaOCl}				
chemical group:	ELSE	CAS-No.:	7681-52-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
--	%	20	°C	not resistant	

chemical:	Bleaching liquid (< 0,5 ppm active Cl2)				
chemical formula:	{NaOCl}				
chemical group:	ELSE	CAS-No.:	7681-52-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
--	%	20	°C	not resistant	

chemical:	Bleaching liquid (< 6% active Cl2)				
chemical formula:	{NaOCl}				
chemical group:	ELSE	CAS-No.:	7681-52-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
--	%	20	°C	not resistant	

chemical:	Bleaching liquid (> 6% active Cl2)				
chemical formula:	{NaOCl}				
chemical group:	ELSE	CAS-No.:	7681-52-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
--	%	20	°C	not 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	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	60	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	80	°C	not resistant	

chemical:	Borax				
chemical formula:	{Na2B4O7}				
chemical group:	SALT	CAS-No.:	1303-43-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	limited resistance	

SCHMIDT + BARTL GMBH - AUF HERDENEN 30 - 78052 VS-VILLINGEN - TEL: 07721/99130 - FAX 07721/991320

chemical:	Bromine (liquid)				
chemical formula:	{Br2 }				
chemical group:	HALO	CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Bromine water				
chemical formula:	{Br-H2O}				
chemical group:	HALO	CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	

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	not resistant	

chemical:	Butane				
chemical formula:	{C4H10}				
chemical group:	ALHC	CAS-No.:	106-97-8	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	60	°C	not resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

chemical:	Butanediol				
chemical formula:	{HO(CH2)4OH}				
chemical group:	ALCO	CAS-No.:	110-63-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	not 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	not resistant	

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	not resistant	

chemical:	Butyl acetate				
chemical formula:	{CH ₃ COOC ₄ H ₉ }				
chemical group:	ESTR	CAS-No.:	123-86-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Butylene glycol				
chemical formula:	{HOCH ₂ (CH ₂) ₂ CH ₂ OH}				
chemical group:	ALCO	CAS-No.:	110-63-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	20	°C	limited resistance	

chemical:	Calcium carbonate				
chemical formula:	{CaCO ₃ }				
chemical group:	SALT	CAS-No.:	471-34-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	80	°C	not resistant	

chemical:	Calcium chloride				
chemical formula:	{CaCl ₂ }				
chemical group:	SALT	CAS-No.:	10043-52-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	80	°C	not 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	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	not resistant	

chemical:	Carbon dioxide dry				
chemical formula:	{CO2}				
chemical group:	ELSE	CAS-No.:	124-38-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	not 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	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
--	%	40	°C	not resistant	

chemical:	Chlorine (aqueous)				
chemical formula:	{Cl2}				
chemical group:	HALO	CAS-No.:	7782-50-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not 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	not 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	not resistant	

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:	Chlorine water - Cl-water <= 2 ppm				
chemical formula:	--				
chemical group:	HALO	CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
-	%	20	°C	limited resistance	corresponds to the regulations of the pool

chemical:	Chlorine water - Cl-water <= 2 ppm				
chemical formula:	--				
chemical group:	HALO	CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
-	%	40	°C	not resistant	corresponds to the regulations of the pool

chemical:	Chloroacetic acid				
chemical formula:	{CH ₂ ClCOOH}				
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:
50	%	RT	°C	not resistant	

chemical:	Chlorobenzene				
chemical formula:	{C ₆ H ₅ Cl}				
chemical group:	ARHC	CAS-No.:	108-90-7	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Chloroform				
chemical formula:	{CHCl ₃ }				
chemical group:	CFHC	CAS-No.:	67-66-3	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

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

chemical:	Chlorosulfonic acid				
chemical formula:	{HSO ₃ Cl}				
chemical group:	IOAC	CAS-No.:	7790-94-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Chromic acid				
chemical formula:	{CrO ₃ +H ₂ O (H ₂ CrO ₄)}				
chemical group:	IOAC	CAS-No.:	7738-94-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	not resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
20	%	RT	°C	not resistant	

chemical:	Chromosulfuric acid (Concentration 15/50/35 %)				
chemical formula:	{H2SO4+CrO3+H2O}				
chemical group:		CAS-No.:	65272-71-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
--	%	RT	°C	not resistant	Concentration: 15%H2SO4:50%CrO3:35%H2O

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	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	80	°C	not resistant	

chemical:	Copper salts (copper nitrate, -carbonate, -chloride, -cyanide, -sulfate)				
chemical formula:	--				
chemical group:	SALT	CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	20	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	80	°C	not resistant	

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	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	80	°C	not resistant	

chemical:	Cyclohexane				
chemical formula:	{C6H12}				
chemical group:	OTHC	CAS-No.:	110-82-7	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not 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	not 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	not resistant	

chemical:	Dextrin usual concentrations				
chemical formula:	{(C6H10O5)n}				
chemical group:	OTHC	CAS-No.:	9004-53-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	60	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	80	°C	not 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	

chemical:	Dibutyl ether				
chemical formula:	{C4H9OC4H9}				
chemical group:	ETHR	CAS-No.:	142-96-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°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	not resistant	

chemical:	Dichloroacetic acid				
chemical formula:	{CHCl2COOH}				
chemical group:	ORAC	CAS-No.:	79-43-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	RT	°C	not resistant	

chemical:	Dichlorobenzene				
chemical formula:	{C6H4Cl2}				
chemical group:	ARHC	CAS-No.:	25321-22-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	not 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	not 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	not resistant	technical pure

chemical:	Diesel (DIN 51601)				
chemical formula:	--				
chemical group:	OTHC	CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	not 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	not resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Diethyl ether				
chemical formula:	{C ₂ H ₅ OC ₂ H ₅ - CH ₂ Cl ₂ }				
chemical group:	ETHR	CAS-No.:	60-29-7	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	
chemical:	Diethylamine				
chemical formula:	{(C ₂ H ₅) ₂ NH}				
chemical group:	AMIN	CAS-No.:	109-89-7	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
chemical:	Diisobutyl ketone				
chemical formula:	{(CH ₃) ₂ CHCH ₂ COCH ₂ CH(CH ₃) ₂ }				
chemical group:	AL/K	CAS-No.:	108-83-8	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
chemical:	Diisopropyl ether				
chemical formula:	{(CH ₃) ₂ CHOCH(CH ₃) ₂ }				
chemical group:	ETHR	CAS-No.:	108-20-3	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
chemical:	Dimethyl formamide				
chemical formula:	{HCON(CH ₃) ₂ }				
chemical group:	AMID	CAS-No.:	68-12-2	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
chemical:	Dimethylamine				
chemical formula:	{(CH ₃) ₂ NH}				
chemical group:	AMIN	CAS-No.:	124-40-3	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
chemical:	Dioxane				
chemical formula:	{C ₄ H ₈ O ₂ }				
chemical group:	ETHR	CAS-No.:	123-91-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Ethanol				
chemical formula:	{C2H5OH}				
chemical group:	ALCO	CAS-No.:	64-17-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
96	%	RT	°C	not 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	not 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	not 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	not resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	60	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	80	°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:
40	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
40	%	40	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
40	%	60	°C	not resistant	

chemical:	Formamide				
chemical formula:	{HCONH2}				
chemical group:	AMID	CAS-No.:	75-12-7	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Formic acid				
chemical formula:	{HCOOH}				
chemical group:	ORAC	CAS-No.:	64-18-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°C	limited resistance	strong permeation
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
25	%	20	°C	limited resistance	strong permeation
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	RT	°C	not resistant	strong permeation

chemical:	Furfuryl alcohol				
chemical formula:	{C4H3OCH2OH}				
chemical group:	ALCO	CAS-No.:	98-00-0	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Glucose				
chemical formula:	{C6H12O6}				
chemical group:	OTHC	CAS-No.:	50-99-7	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	40	°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	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	60	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	80	°C	not resistant	

chemical:	Glycolic acid				
chemical formula:	{CH ₂ OHCOOH}				
chemical group:	ORAC	CAS-No.:	79-14-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
37	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
37	%	40	°C	not resistant	

chemical:	Heptane				
chemical formula:	{CH ₃ (CH ₂) ₅ CH ₃ }				
chemical group:	ALHC	CAS-No.:	142-82-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	not resistant	

chemical:	Hexane				
chemical formula:	{CH ₃ (CH ₂) ₄ CH ₃ }				
chemical group:	ALHC	CAS-No.:	110-54-3	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	not resistant	

chemical:	Hydrazine hydrate				
chemical formula:	{H ₂ NNH ₂ .H ₂ O}				
chemical group:		CAS-No.:	10217-52	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
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:
25	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
25	%	40	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
25	%	60	°C	not resistant	

chemical:	Hydrocyanic acid				
chemical formula:	{HCN}				
chemical group:	IOAC	CAS-No.:	74-90-8	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
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:
40	%	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	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	60	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	80	°C	not resistant	

chemical:	Hydrogen cyanide,all aqueous solutions				
chemical formula:	{HCN}				
chemical group:	IOAC	CAS-No.:	74-90-8	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Hydrogen sulphide (gas)				
chemical formula:	{H2S}				
chemical group:	IOAC	CAS-No.:	7783-06-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	not resistant	

chemical:	Hydrogen sulphide, aqueous				
chemical formula:	{H2S}				
chemical group:		CAS-No.:	7783-06-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	not resistant	

chemical:	Hydroquinone				
chemical formula:	{C6H4(OH)2}				
chemical group:	PHEN	CAS-No.:	123-31-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Iron(II)-chloride				
chemical formula:	{FeCl ₂ }				
chemical group:	SALT	CAS-No.:	7758-94-3	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	not resistant	

chemical:	Iron(III)-chloride				
chemical formula:	{FeCl ₃ }				
chemical group:	SALT	CAS-No.:	7705-08-0	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	not resistant	

chemical:	Isobutanol				
chemical formula:	{(CH ₃) ₂ CHCH ₂ OH}				
chemical group:	ALCO	CAS-No.:	78-83-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	not resistant	

chemical:	Isobutyl acetate				
chemical formula:	{CH ₃ COOCH ₂ CH(CH ₃) ₂ - C ₆ H ₁₂ O ₂ }				
chemical group:	ESTR	CAS-No.:	110-19-0	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Isopropanol				
chemical formula:	{CH ₃ CH(OH)CH ₃ }				
chemical group:	ALCO	CAS-No.:	67-63-0	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	not resistant	

chemical:	Lactic acid				
chemical formula:	{CH3CHOHCOOH}				
chemical group:	ORAC	CAS-No.:	50-21-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
90	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
90	%	40	°C	limited resistance	

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:
GL	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	80	°C	not resistant	

chemical:	Linseed oil				
chemical formula:	--				
chemical group:	OTHC	CAS-No.:	8001-26-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	not resistant	

chemical:	Lithium salts				
chemical formula:	--				
chemical group:	SALT	CAS-No.:	7439-93-2	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	limited resistance	

chemical:	Magnesium salts				
chemical formula:	--				
chemical group:	SALT	CAS-No.:	7439-95-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	

chemical:	Magnesium salts				
chemical formula:	--				
chemical group:	SALT	CAS-No.:	7439-95-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	limited resistance	

chemical:	Mercury salts				
chemical formula:	--				
chemical group:	SALT	CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

chemical:	Methane				
chemical formula:	{CH ₄ }				
chemical group:	ALHC	CAS-No.:	74-82-8	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	limited resistance	

chemical:	Methanol				
chemical formula:	{CH ₃ OH}				
chemical group:	ALCO	CAS-No.:	67-56-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Methyl acetate				
chemical formula:	{CH ₃ COOCH ₃ - C ₃ H ₆ O ₂ }				
chemical group:	ESTR	CAS-No.:	79-20-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Methyl ethyl ketone				
chemical formula:	{CH ₃ COC ₂ H ₅ - C ₄ H ₈ O}				
chemical group:	AL/K	CAS-No.:	78-93-3	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Methyl isobutyl ketone				
chemical formula:	{(CH ₃) ₂ CHCH ₂ COCH ₃ }				
chemical group:	AL/K	CAS-No.:	108-10-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Methylamine				
chemical formula:	{CH ₃ NH ₂ - CH ₅ N}				
chemical group:	AMIN	CAS-No.:	74-89-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
32	%	RT	°C	not resistant	
chemical:	Methylpyrrolidon (n-)				
chemical formula:	{C ₅ H ₉ NO}				
chemical group:	OTHC	CAS-No.:	872-50-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	
chemical:	Mineral oils				
chemical formula:	--				
chemical group:	OTHC	CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	limited resistance	
chemical:	Mixed acid Nitric acid-Hydrofluoric acid-Sulphuric acid				
chemical formula:	{15% HNO ₃ -15% HF-18% H ₂ SO ₄ }				
chemical group:		CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
--	%	RT	°C	not resistant	Concentration 7,5% HNO ₃ 2,7% HF 6% H ₂ SO ₄
chemical:	Mixed acid Sulphuric acid-Phosphoric acid-aqueous				
chemical formula:	{30% H ₂ SO ₄ -60% H ₃ PO ₄ -10% H ₂ O}				
chemical group:		CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
--	%	RT	°C	not resistant	Concentration 30% H ₂ SO ₄ 60% H ₃ PO ₄ 10% H ₂ O
chemical:	Nitric acid				
chemical formula:	{HNO ₃ }				
chemical group:	IOAC	CAS-No.:	7697-37-2	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
6	%	RT	°C	not resistant	
chemical:	Nitrobenzene				
chemical formula:	{C ₆ H ₅ NO ₂ }				
chemical group:	ARHC	CAS-No.:	98-95-3	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Nitrogen				
chemical formula:	{N ₂ }				
chemical group:	ELSE	CAS-No.:	7727-37-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	60	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	80	°C	not resistant	

chemical:	Nitrotoluene				
chemical formula:	{C ₆ H ₄ CH ₃ NO ₂ }				
chemical group:	ARHC	CAS-No.:	1321-12-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Octadecenoic acid (9-)				
chemical formula:	{CH ₃ (CH ₂) ₇ CHCH(CH ₂) ₇ COOH - C ₁₈ H ₃₄ O ₂ }				
chemical group:	ORAC	CAS-No.:	112-80-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Octane (n-)				
chemical formula:	{C ₈ H ₁₈ }				
chemical group:	ALHC	CAS-No.:	111-65-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Oleum (Concentration 90:10 %)				
chemical formula:	{H ₂ SO ₄ +SO ₃ }				
chemical group:	IOAC	CAS-No.:	8014-95-7	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Olive oil				
chemical formula:	--				
chemical group:	OTHC	CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	RT	°C	not resistant	

chemical:	Ozone - diluted in air (2 ppm)				
chemical formula:	{O3}				
chemical group:	ELSE	CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
--	%	RT	°C	not resistant	

chemical:	Ozone aqueous solution				
chemical formula:	{O3}				
chemical group:	ELSE	CAS-No.:	10028-15-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
--	%	RT	°C	not resistant	

chemical:	Paraffin emulsion				
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	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
H	%	60	°C	limited resistance	

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	not resistant	

chemical:	Perchloric acid				
chemical formula:	{HClO4}				
chemical group:	IOAC	CAS-No.:	7601-90-3	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
70	%	RT	°C	not 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	not resistant	

chemical:	Phenol				
chemical formula:	{C6H5OH}				
chemical group:	PHEN	CAS-No.:	108-95-2	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
10	%	RT	°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	not resistant	

chemical:	Potassium alum				
chemical formula:	{Al2(SO4)3 K2SO4}				
chemical group:		CAS-No.:	7784-24-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	limited resistance	

chemical:	Potassium persulfate				
chemical formula:	{K2S2O8}				
chemical group:	SALT	CAS-No.:	7727-21-1	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	limited resistance	

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	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	40	°C	limited resistance	

chemical:	Propionic acid				
chemical formula:	{C2H5COOH - C3H6O2}				
chemical group:	ORAC	CAS-No.:	79-09-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Propionic acid				
chemical formula:	{C ₂ H ₅ COOH - C ₃ H ₆ O ₂ }				
chemical group:	ORAC	CAS-No.:	79-09-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	RT	°C	not resistant	

chemical:	Propylene glycol				
chemical formula:	{CH ₃ CHOHCH ₂ OH}				
chemical group:	ALCO	CAS-No.:	57-55-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	60	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
50	%	80	°C	not 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	

chemical:	Salicylic acid				
chemical formula:	{C ₆ H ₄ (OH)(COOH)}				
chemical group:	ORAC	CAS-No.:	69-72-7	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	not resistant	

chemical:	Silicone oil				
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	%	40	°C	limited resistance	

chemical:	Silver nitrate				
chemical formula:	{AgNO ₃ }				
chemical group:	SALT	CAS-No.:	7761-88-8	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	

chemical:	Silver nitrate				
chemical formula:	{AgNO ₃ }				
chemical group:	SALT	CAS-No.:	7761-88-8	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	60	°C	limited resistance	
chemical:	Sodium carbonate				
chemical formula:	{Na ₂ CO ₃ }				
chemical group:	SALT	CAS-No.:	497-19-8	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	
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	limited resistance	
chemical:	Sodium nitrate				
chemical formula:	{NaNO ₃ }				
chemical group:	SALT	CAS-No.:	7631-99-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	
chemical:	Sodium phosphate				
chemical formula:	{Na ₃ PO ₄ }				
chemical group:	SALT	CAS-No.:	7601-54-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	
chemical:	Sodium salts				
chemical formula:	--				
chemical group:	SALT	CAS-No.:	7440-23-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	
chemical:	Sodium sulphate				
chemical formula:	{Na ₂ SO ₄ }				
chemical group:	SALT	CAS-No.:	7757-82-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

chemical:	Styrene				
chemical formula:	{C6H5CH:CH2}				
chemical group:	ARHC	CAS-No.:	100-42-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not 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	not resistant	

chemical:	Sulphur dioxide, wet				
chemical formula:	{SO2}				
chemical group:	ELSE	CAS-No.:	7446-09-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Sulphuryl chloride (Sulfuryl chloride)				
chemical formula:	{SO2Cl2}				
chemical group:	ELSE	CAS-No.:	7791-25-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

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	not 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:
UV	%	RT	°C	not resistant	

chemical:	Tetrachlorocarbon				
chemical formula:	{CCl4}				
chemical group:	CFHC	CAS-No.:	56-23-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Tetrachloroethane				
chemical formula:	{CHCl ₂ CHCl ₂ }				
chemical group:	CFHC	CAS-No.:	25322-20-7	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
chemical:	Tetrahydrofuran				
chemical formula:	{C ₄ H ₈ O}				
chemical group:	OTHC	CAS-No.:	109-99-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
chemical:	Tetrahydronaphtalene				
chemical formula:	{C ₁₀ H ₁₂ }				
chemical group:	ARHC	CAS-No.:	119-64-2	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
chemical:	Toluene				
chemical formula:	{C ₆ H ₅ CH ₃ }				
chemical group:	ARHC	CAS-No.:	108-88-3	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
chemical:	Trichloroacetic acid				
chemical formula:	{CCl ₃ COOH - C ₂ HCl ₃ O ₂ }				
chemical group:	ORAC	CAS-No.:	76-03-9	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	
chemical:	Trichloroethane (1,1,1-)				
chemical formula:	{CH ₃ CCl ₃ }				
chemical group:	CFHC	CAS-No.:	71-55-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	
chemical:	Trichloroethylene				
chemical formula:	{CHCl:CCl ₂ }				
chemical group:	CFHC	CAS-No.:	79-01-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	not resistant	

chemical:	Triethylamine				
chemical formula:	{(C ₂ H ₅) ₃ N}				
chemical group:	AMIN	CAS-No.:	121-44-8	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:
TR	%	RT	°C	not resistant	

chemical:	Urea				
chemical formula:	{(NH ₂) ₂ CO}				
chemical group:	ELSE	CAS-No.:	57-13-6	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	40	°C	limited resistance	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	60	°C	limited resistance	

chemical:	Urine				
chemical formula:	--				
chemical group:	ELSE	CAS-No.:	--	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	limited resistance	

chemical:	Vinyl acetate				
chemical formula:	{CH ₃ COOCH:CH ₂ }				
chemical group:	ESTR	CAS-No.:	108-05-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Vinyl chloride				
chemical formula:	{CH ₂ CHCl - C ₂ H ₃ Cl}				
chemical group:	CFHC	CAS-No.:	75-01-4	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
TR	%	RT	°C	not resistant	

chemical:	Water (chlorinated as Drinking)				
chemical formula:	{H ₂ O}				
chemical group:	ELSE	CAS-No.:	7732-18-5	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	RT	°C	resistant	

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	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	60	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	80	°C	not resistant	

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	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	60	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	80	°C	not resistant	

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	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	40	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	60	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
UV	%	80	°C	not 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	not resistant	

chemical:	Zinc chloride				
chemical formula:	{ZnCl ₂ }				
chemical group:	SALT	CAS-No.:	7646-85-7	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	resistant	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	40	°C	limited resistance	
chemical:	Zinc(II)-salts				
chemical formula:	{SnCl ₂ }				
chemical group:	SALT	CAS-No.:	7772-99-8	Syn-No.:	
Conc.:	Value:	Temp.:	Value:	Resistance:	Remarks:
GL	%	RT	°C	limited resistance	

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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