



CHEMICAL RESISTANCE CHARTS and INFORMATION

For thermoplastic pipe systems

www.actuatedvalvesupplies.com

Actuated Valve Supplies

ISO9001:2015 approved Actuated Valve Supplies are specialists in the sizing, specifying and supply of thermoplastic valves, valve actuators and actuated valves providing valve actuation solutions that cover a wide range of applications across many industries. Products supplied are typically actuated ball valves and actuated butterfly valves, fitted with a variety of electric actuators and pneumatic actuators in different thermoplastic materials and covering both safe and hazardous area applications.

AVS's expertise combines the technical knowledge and experience of many and varied valve and actuator manufacturing and sales associates and that of the AVS staff, producing a knowledge base and skill set that is respected by its wide, repeat ordering customer base. AVS take great care to gain as much information at inquiry stage to ensure that the right actuated solution is offered and supplied, minimising the potential for issues post sale.

Wherever practical AVS assemble and test the valve and actuator assemblies to ensure that their customers can order electric ball valves, electric butterfly valves, air actuated ball valves and air actuated butterfly valves with confidence.

Expertise in valve actuation enables AVS to offer an excellent after sales service, offering help where appropriate with installation advice, wiring for electric actuated valves, and troubleshooting when things aren't working as expected.



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A guide to product selection

Material	Chemical resistance and performance data	Typical applications	Unsuitable for following uses	Size and jointing information
ABS Acrylonitrile Butadiene Styrene	Moderately strong mineral acids Caustic and ammoniacal solutions Most inorganic salt solutions Some detergents Temperature range -40°C to +70°C	Chilled water, low temperature brine, potable water, air conditioning, process water, foodstuffs	Pressure applications over 70°C, strong bleaches aromatic solvents	Pipe and fittings for solvent cement jointing manufactured in metric sizes from 16mm to 315mm to DIN & ISO standards and in inch sizes from 3/8" to 12" British Standard. Threaded fittings also available.
PVC-C	Very strong mineral acids Caustic solutions Most inorganic salt solutions Some detergents Temperature range +5°C to +100°C	High temperature, aggressive substances, highly corrosive conditions, chemical processing & many industrial applications	Aromatic solvents Temperatures below +5°C	Pipe and fittings for solvent cement jointing manufactured in sizes from 16mm to 160mm.
Polypropylene (PP)	Strong mineral acids Caustic and ammoniacal solutions Inorganic salt solutions Many organics Detergents Temperature range 0°C to +100°C	Hot chemical applications	Strong oxidising acids and halogens	Pipe and socket-weld fittings manufactured in inch and metric sizes
PVC-U Unplasticised Polyvinyl Chloride	Strong mineral acids Caustic and ammoniacal solutions Some organics Most detergents Temperature range +5°C to 60°C	Potable water, general purpose water, waste water etc.	Aromatic solvents temperatures below +5°C temperatures over 60°C	Pipe and fittings for solvent welding manufactured in metric sizes 12mm to 315mm to DIN and ISO standards and 3/8" to 12" British Standards. Threaded fittings also available.

* Note, temperatures given are for guidance only; please check before specifying.

Actuated Valve Supplies - UK based leader in plastic valves

Shown below are brief details of other AVS products available:



Thermoplastic Pipe: guidance for correct usage

Please be aware that chemical properties can be affected by factors such as:

- temperature
- fluid concentration
- aeration
- flow velocity
- turbulence
- chemical stability of conveyed fluid
- duration of exposure
- pressure

Fire

The use of thermoplastic materials to convey flammable substances may be unacceptable due to fire hazard.

Foodstuffs

A resistant classification does not imply absolute suitability e.g. certain foodstuffs may require gaskets to meet organoleptic requirements.

Thermal Insulation and Trace Heating

Although thermoplastic pipe systems have low thermal conductivity, circumstances do sometimes arise where thermal insulation or trace heating tapes may be required.

Fibre 'wool' types of insulation such as 'Rockwool' are suitable for many applications but some materials used in the manufacture of certain trace heating tapes, thermal insulation and their adhesives can have a detrimental effect upon certain thermoplastics.

It is essential that our Technical Support Department are consulted prior to use of these products.

Approval of any product is conditional on it being used strictly in accordance with the manufacturers instructions for applications in conjunction with thermoplastic materials.

Thread Sealants

Some adhesive thread sealants can chemically attack some plastics and must not be used.

Please refer to individual product literature for further details (e.g. ABS Systems D0365)

Ultra-violet Light

Avoid prolonged exposure to ultra-violet light, particularly in storage out of doors, and especially in tropical climates.

Label Adhesive

It is possible that label adhesives will contain stress cracking agents. We recommend that other methods are used to mark pipe or that adequate checks are made to ensure suitability.

Health and Safety at Work Act and COSHH Regulations

Attention is drawn to the requirements in the UK of this Act and to the 1988 Control of Substances Hazardous to Health (COSHH) regulations.

Notes on care to be taken in handling and storage of products are available in leaflet no. D0004.

AVS cannot accept responsibility for accidents arising from the misuse of its products due to incorrect installation or application.

Valves

Ball Valves

With the exception of our VE economy range, all ball valves have PTFE seats which offer chemical resistance to all media likely to be encountered by any of our pipework systems.

VE valves have PE seats suitable for water applications.

Diaphragm Valves

Diaphragms can be manufactured from EPDM, FPM or PTFE. Please consult Valves Technical brochure (D0209).

Standards and Quality

Products are manufactured in an environment operating a quality assurance system in accordance with BS EN 9001 and have been successfully assessed by BSI in this respect. This quality assurance system imposes stringent standards of control throughout design, development and subsequent production and inspection processes. In addition to the provision of certificates of conformity for all raw materials, products are subjected to a range of checks and tests. Detailed records are kept for dimensional and performance tests for each production batch. Each batch is given a unique identification number which is reproduced on every fitting, giving complete traceability.

All of this is your guarantee of quality and performance in the most testing conditions.

Pipes and fittings are manufactured within an environmental management system which operates in accordance with the requirements of ISO 14001.

Thermoplastic range diverse in many ways also share many common advantageous characteristics:

- **sealed systems for complete joint integrity**
- **corrosion resistance**
- **resistance to scaling and deposit accumulation**
- **improved flow characteristics.**
- **malleability**
- **lightweight**
- **easy installation - simplified work practice**

These notes are to be read in conjunction with the Chemical Resistance tables.

- See under Allyl, Amyl, Butyl, Ethyl, Furfuryl, Methyl, or iso-Propyl
- These are compounds whose general formula is either $(R1)_2SO_4(R2)_2(SO_4)_6 \cdot 24 H_2O$ or $(R1)(R2)(SO_4)_2 \cdot 12 H_2O$, where R1 represents an atom of Potassium, Sodium, Ammonium, Rubidium, Caesium, Silver, or Thallium; and (R2) represents an atom of Aluminium, Iron, Chromium, Manganese or Thallium.
- This substance is insoluble in pure water. If conveyed aqueous it would always be in the form of a suspension.
- This substance decomposes in hot water. Unless suitability is indicated.
- Substances which are generally categorised can have widely variable compositions, and therefore each needs to be tested for suitability.
- This substance is only sparingly soluble in water. If conveyed aqueous it would usually be in the form of a suspension.
- Solutions other than sea water and aqueous Sodium chloride should be referred to **manufacturer** for suitability tests.
- This substance is sparingly soluble in water, which then reacts with it.
- A solution of Chromium trioxide in water, often produced by the action of concentrated Sulphuric acid on Sodium dichromate.
- This substance is explosive and would not normally be considered suitable for conveyance in plastic pipework.
- Oils can contain variable amounts of aromatic hydrocarbons and additives.
- Most plasticizers are not suitable for conveyance in plastics.
- Not for conveyance in the presence of Bromide.
- Not for conveyance in the presence of Bromate.
- Not for conveyance in the presence of Iodide.
- Not for conveyance in the presence of Iodate.
- The substance decomposes in cold water. Unless suitability is indicated, refer to **manufacturer**
- Some of this group of chemicals could be very aggressive towards plastics and rubbers, but others would be quite harmless. Refer to Durapipe for a specific recommendation.
- Joints made with PVC-U solvent cement are generally as resistant as the PVC-U material itself.
However, the following media are exceptional:
Hydrochloric acid at concentrations of 25% and above
Nitric acid at concentrations of 20% and above
Sulphuric acid at concentrations of 70% and above
On systems required to convey the above acids, and where PVC-U is shown as resistant (+), we recommend the use of dytex cement, which is made by Henkel and is available through most Distributors.
- See under either Ferrous or Ferric.
- ABS has been safely used for many years with cold potable and grade 1 distilled water. It conforms to the requirements of 45/3 of the BFP/BIBRA Code of practice for Safety in use for Plastics in Food Contact Applications (1973 edition).

Classification

+	Resistant
*	Likely to be resistant
o	Unlikely to be resistant
-	Not resistant
	No data available

In some instances a * has been used where extensive usage by customers indicates suitability, but where confirmation by in-house testing is not possible.

Abbreviations

Code	Material
ABS	Acrylonitrile Butadiene Styrene
PVC-U	Unplasticised Polyvinyl Chloride
PP	Polypropylene
PVC-C	Chlorinated Polyvinyl Chloride
CORZAN®	PVC-C compound
CORZAN™	Industrial Pipework by Durapipe, using CORZAN®, PVC-C material
EPDM	Ethylene Propylene Diene Monomer Rubber
FPM	Fluorine Rubber (Viton®)
PTFE	Polytetrafluoroethylene (e.g. Teflon®)

Viton® and Teflon® are DuPont registered trade names CORZAN®, and CORZAN™, are B F Goodrich registered trade names.

Dictionary of chemicals

Chemical Name	Formula and/or other description	Chemical Name	Formula and/or other description
A Acetaldehyde	CH_3CHO	Calcium sulphate	CaSO_4 , $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ (Gypsum), $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$ (Plaster of Paris)
Acetamide	$\text{CH}_3\text{CO}\cdot\text{NH}_2$	Carbon dioxide	CO_2
Acetic acid	CH_3COOH	Carbon disulphide	CS_2
Acetic anhydride	$(\text{CH}_3\text{CO})_2\text{O}$	Carbon monoxide	CO
Acetone	$(\text{CH}_3)_2\text{CO}$	Carbon tetrachloride	CCl_4
Acetophenone	$\text{C}_6\text{H}_5\text{CO}\cdot\text{CH}_3$	Caustic potash	KOH , Potassium hydroxide
Acetyl chloride	CH_3COCl	Caustic soda	NaOH , Sodium hydroxide
Acrylonitrile	$\text{CH}_2\text{CH}\cdot\text{CN}$	Cellosolve	$\text{C}_2\text{H}_5\cdot\text{O}\cdot\text{CH}_2\cdot\text{CH}_2\cdot\text{OH}$, 2-Ethoxyethanol, Glycol monoethyl ether
Adipic acid	$(\text{CH}_2)_4\text{CH}_2\cdot\text{COOH}_2$	Cellosolve acetate	$\text{CH}_3\cdot\text{COO}\cdot\text{CH}_2\cdot\text{CH}_2\cdot\text{O}\cdot\text{C}_2\text{H}_5$, 2-Ethoxyethyl acetate
Allyl alcohol	$\text{CH}_2\text{CH}\cdot\text{CH}_2\text{OH}$	Chloral hydrate	$\text{CCl}_3\cdot\text{CH}(\text{OH})_2$
Allyl chloride	$\text{CH}_2\text{CH}\cdot\text{CH}_2\text{Cl}$	Chlorine	Cl_2
Aluminium chloride	AlCl_3 , $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$	Chlorine dioxide	ClO_2
Aluminium fluoride	AlF_3 , $\text{AlF}_3 \cdot \text{H}_2\text{O}$, $\text{AlF}_3 \cdot 3\frac{1}{2}\text{H}_2\text{O}$	Chlorobenzene	$\text{C}_6\text{H}_5\text{Cl}$
Aluminium hydroxide	$\text{Al}(\text{OH})_3$	Chloroform	CHCl_3
Aluminium nitrate	$\text{Al}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$	Chromic acid	$\text{CrO}_3 + \text{H}_2\text{O}$
Aluminium oxalate	$\text{Al}(\text{C}_2\text{O}_4)_3 \cdot 4\text{H}_2\text{O}$	Citric acid	$\text{C}(\text{OH})(\text{COOH})\text{CH}_2\text{COOH}_2 \cdot \text{H}_2\text{O}$
Aluminium sulphate	$\text{Al}_2(\text{SO}_4)_3$, $\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$	Cooking salt	NaCl , Common salt, Sodium chloride
Ammonia	NH_3	Copper chloride(s)	CuCl , CuCl_2 , $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$
Ammonium carbonate	NH_4HCO_3 , $\text{NH}_2\text{COONH}_4$, $\text{H}_2\text{NCOONH}_4$	Copper nitrate	$\text{Cu}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$, Cupric nitrate
Ammonium chloride	NH_4Cl	Copper sulphate	CuSO_4 , $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$, Cupric sulphate
Ammonium fluoride	NH_4F	Creosote	A coal-tar fraction
Ammonium hydroxide	NH_4OH , NH_3 dissolved in H_2O	Cresol(s)	Isomers of $\text{CH}_3\cdot\text{C}_6\text{H}_4\cdot\text{OH}$, Cresylic acid
Ammonium molybdate	$(\text{NH}_4)_6\text{MoO}_{24} \cdot 4\text{H}_2\text{O}$	Cyclohexane	$\text{CH}_2\cdot(\text{CH}_2)_4\cdot\text{CH}_2$
Ammonium nitrate	NH_4NO_3	Cyclohexanol	$\text{CH}_2\cdot(\text{CH}_2)_4\cdot\text{CH}_2\cdot\text{OH}$
Ammonium persulphate	$(\text{NH}_4)_2\text{S}_2\text{O}_8$	Cyclohexanone	$\text{CH}_2\cdot(\text{CH}_2)_4\cdot\text{CO}$
Ammonium phosphate(s)	$\text{NH}_4\text{H}_2\text{PO}_4$, $(\text{NH}_4)_2\text{HPO}_4$, $(\text{NH}_4)_3\text{PO}_4 \cdot 3\text{H}_2\text{O}$	D Dekalin	$\text{C}_{10}\text{H}_{18}$, Decahydronaphthalene
Ammonium sulphate	$(\text{NH}_4)_2\text{SO}_4$	Dextrins	Variable hydrolysis products of starch
Ammonium thiocyanate	NH_4SCN	Dextrose	$\text{O}(\text{CH}\cdot\text{OH})_4\cdot\text{CH}\cdot\text{CH}_2\cdot\text{OH}$, D-Glucose
<i>n</i> -Amyl acetate	$\text{CH}_3\cdot\text{COO}\cdot(\text{CH}_2)_4\cdot\text{CH}_3$, Pentyl acetate	Di-iso-butyl ketone	$[(\text{CH}_3)_2\text{CH}\cdot\text{CH}_2]_2\text{CO}$
<i>n</i> -Amyl alcohol	$\text{CH}_3\cdot(\text{CH}_2)_4\cdot\text{CH}_2\text{OH}$, Pentan-1-ol, Butyl carbinol	Di-n-butyl phthalate	$\text{C}_6\text{H}_4(\text{COOC}_4\text{H}_9)_2$
<i>n</i> -Amyl chloride	$\text{CH}_3\cdot(\text{CH}_2)_4\cdot\text{CH}_2\text{Cl}$, Pentyl chloride	Di-octyl phthalate	$\text{C}_6\text{H}_4[\text{COO}\cdot\text{CH}_2\cdot\text{CH}(\text{C}_2\text{H}_5)(\text{CH}_2)_5\cdot\text{CH}_3]_2$, Di-(2-ethylhexyl) phthalate, DOP
Aniline	$\text{C}_6\text{H}_5\cdot\text{NH}_2$	Dichlorobenzene(s)	$\text{C}_6\text{H}_4\text{Cl}_2$
Antimony trichloride	SbCl_3 , Antimony (III) chloride, Butter of Antimony	1,2-Dichloroethane	$\text{Cl}\cdot\text{CH}_2\cdot\text{CH}_2\cdot\text{Cl}$
Aqua regia	Conc. HCl :conc. HNO_3 , 3:1 by volume	1,1-Dichloroethylene	$\text{Cl}\cdot\text{CH}=\text{CH}\cdot\text{Cl}$
B Barium bromide	BaBr_2 , $\text{BaBr}_2 \cdot 2\text{H}_2\text{O}$	Dichloromethane	CH_2Cl_2 , Methylene chloride
Barium carbonate	BaCO_3	1,2-Dichloropropane	$\text{CH}_3\cdot\text{CHCl}\cdot\text{CH}_2\text{Cl}$
Barium chloride	BaCl_2 , $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$	Diethanolamine	$[\text{CH}_2(\text{OH})\cdot\text{CH}_2]_2\text{NH}$
Barium hydroxide	$\text{Ba}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$	Diethyl ether	$(\text{C}_2\text{H}_5)_2\text{O}$, Ether, Ethyl ether
Barium sulphate	BaSO_4 , Barytes, Blanc fixe	Diethyl phthalate	$\text{C}_6\text{H}_4(\text{COO}\cdot\text{C}_2\text{H}_5)_2$
Battery acid	conc. H_2SO_4 diluted with water to about 25%	Dimethylformamide	$\text{H}\cdot\text{CO}\cdot\text{N}(\text{CH}_3)_2$, DMF, N N-Dimethylformamide
Benzaldehyde	$\text{C}_6\text{H}_5\cdot\text{CHO}$	1,4-Dioxan	$\text{CH}_2\cdot\text{CH}_2\cdot\text{O}\cdot\text{CH}_2\cdot\text{CH}_2\cdot\text{O}$
Benzene	C_6H_6	Drinking water	H_2O
Benzoyl chloride	$\text{C}_6\text{H}_5\cdot\text{COCl}$	E EDTA	$[\text{CH}_2\cdot\text{N}(\text{CH}_2\cdot\text{COOH})_2]_2$, Ethylenediaminetetra-acetic acid
Benzyl chloride	$\text{C}_6\text{H}_5\cdot\text{CH}_2\text{Cl}$	2-Ethoxyethanol	$\text{C}_2\text{H}_5\cdot\text{O}\cdot\text{CH}_2\cdot\text{CH}_2\cdot\text{OH}$, Cellosolve, Glycol monoethyl ether
Borax	$\text{Na}_2\text{B}_4\text{O}_7$, $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$, di-Sodium tetraborate	2-Ethoxyethyl acetate	$\text{CH}_3\cdot\text{COO}\cdot\text{CH}_2\cdot\text{OC}_2\text{H}_5$, Cellosolve acetate
Boric acid	H_3BO_3 , Orthoboric acid	Ethyl acetate	$\text{CH}_3\cdot\text{COO}\cdot\text{C}_2\text{H}_5$
Brine	Sea water or aqueous Sodium chloride	Ethyl acrylate	$\text{CH}_2\cdot\text{CH}\cdot\text{COO}\cdot\text{C}_2\text{H}_5$
Bromine	Br_2	Ethyl alcohol	$\text{C}_2\text{H}_5\text{OH}$, Ethanol
Bromine water	Br_2 dissolved in H_2O	Ethyl chloride	$\text{C}_2\text{H}_5\text{Cl}$, Chloroethane
Butane	$\text{CH}_3\cdot(\text{CH}_2)_2\cdot\text{CH}_3$	Ethyl ether	$(\text{C}_2\text{H}_5)_2\text{O}$, Diethyl ether, Ether
2-Butoxyethanol	$\text{C}_4\text{H}_9\text{O}\cdot\text{CH}_2\cdot\text{CH}_2\cdot\text{OH}$, Butyl cellosolve	Ethylene glycol	$\text{CH}_2(\text{OH})\cdot\text{CH}_2\text{OH}$, Ethanediol
Buttermilk	The aqueous liquid removed during the manufacture of butter	Ethylene Oxide	$\text{CH}_2\cdot\text{CH}_2\cdot\text{O}$
<i>n</i> -Butyl acetate	$\text{CH}_3\cdot\text{COO}\cdot(\text{CH}_2)_3\cdot\text{CH}_3$	F Ferric chloride	FeCl_3 , $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$, Iron (III) chloride
<i>n</i> -Butyl alcohol	$\text{CH}_3\cdot(\text{CH}_2)_3\cdot\text{OH}$, Butan-1-ol	Ferric nitrate	$\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$, Iron (III) nitrate
<i>n</i> -Butyric acid	$\text{CH}_3\cdot\text{CH}_2\cdot\text{CH}_2\cdot\text{COOH}$	Ferric Sulphate	$\text{Fe}_2(\text{SO}_4)_3$, $\text{Fe}_2(\text{SO}_4)_3 \cdot x\text{H}_2\text{O}$, Iron (III) sulphate
C Cab-O-Sil	Fumed Silicon dioxide	Ferrous chloride	$\text{FeCl}_2 \cdot 4\text{H}_2\text{O}$, Iron (II) chloride
Calcium bromide	CaBr_2 , $\text{CaBr}_2 \cdot 2\text{H}_2\text{O}$		
Calcium carbonate	CaCO_3		
Calcium chloride	CaCl_2 , $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, $\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$		
Calcium hydroxide	$\text{Ca}(\text{OH})_2$, Slaked lime		
Calcium nitrate	$\text{Ca}(\text{NO}_3)_2$, $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$		
Calcium oxide	CaO , Lime		

Chemical Name	Formula and/or other description	Chemical Name	Formula and/or other description
Ferrous sulphate	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$, Iron (II) sulphate	Nitric acid	HNO_3
Fluorine	F_2	Nitrobenzene	$\text{C}_6\text{H}_5\text{NO}_2$
Fluorosilicic acid	H_2SiF_6 , Hydrofluorosilicic acid	Nitrotoluene	$\text{CH}_3\text{C}_6\text{H}_4\text{NO}_2$
Formalin	Aqueous solution of 37-40% Formaldehyde and 10-14% Methanol	O Oleic acid	$\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COOH}$, 9-Octadecanoic acid
Formic acid	HCOOH	Oleum	Fuming Sulphuric acid, contains 25-30% SO_3
Fructose	$\text{O} \cdot \text{CH}_2 \cdot (\text{CH} \cdot \text{OH})_3 \cdot \text{C}(\text{OH}) \cdot \text{CH}_2\text{OH}$, Laevulose	Oxalic acid	$(\text{COOH})_2 \cdot 2\text{H}_2\text{O}$
Furfural	$\text{OHC} \cdot \text{CH} \cdot \text{CH} \cdot \text{CCHO}$, Furfuraldehyde	Oxygen	O_2
Furfuryl alcohol	$\text{O} \cdot \text{CH} \cdot \text{CH} \cdot \text{CH} \cdot \text{C} \cdot \text{CH}_2\text{OH}$	Ozone	O_3
G Gasoline	Petrol	P Palmitic acid	$\text{CH}_3 \cdot (\text{CH}_2)_{14} \cdot \text{COOH}$, Hexadecanoic acid
Gelatin(e)	Glue obtained from bones, hides etc.	Paraffin fuel	Saturated aliphatic hydrocarbons
Glucose, D or L	$\text{O} \cdot (\text{CHOH})_4 \cdot \text{CH} \cdot \text{CH}_2\text{OH}$	Paraffin liquid	Saturated aliphatic hydrocarbons
Glycerin(e)	$\text{CH}_2\text{OH} \cdot \text{CHOH} \cdot \text{CH}_2\text{OH}$, Glycerol, 1,2,3-Propanetriol	<i>n</i> -Pentane	$\text{CH}_3 \cdot (\text{CH}_2)_3 \cdot \text{CH}_3$
Gypsum	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$, A Calcium sulphate	Peracetic acid	$\text{CH}_3 \cdot \text{CO} \cdot \text{OOH}$, Peroxyacetic acid
H <i>n</i> -Heptane	$\text{CH}_3(\text{CH}_2)_5\text{CH}_3$	Peroxyacetic acid	$\text{CH}_3 \cdot \text{CO} \cdot \text{OOH}$, Peracetic acid
<i>n</i> -Hexane	$\text{CH}_3(\text{CH}_2)_4\text{CH}_3$	Petrol	Gasoline
Hydrazine	$\text{H}_2\text{N} \cdot \text{NH}_2$	Petroleum	Hydrocarbons and other natural substances
Hydrazine hydrate	$\text{NH}_2 \cdot \text{NH}_2 \cdot \text{H}_2\text{O}$	Petroleum ether	Blends of aliphatic hydrocarbons
Hydrochloric acid	HCl	Petroleum jelly	Petrolatum, C_{18} - C_{22} hydrocarbons obtained from petroleum
Hydrofluoric acid	HF	Phosphoric acid	H_3PO_4 , <i>ortho</i> -phosphoric acid
Hydrogen	H_2	Plaster of Paris	$\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$, a Calcium sulphate
Hydrogen peroxide	H_2O_2	Potable water	H_2O , drinking water
Hydrogen sulphide	H_2S	Potash	K_2CO_3 , $\text{K}_2\text{CO}_3 \cdot \frac{1}{2}\text{H}_2\text{O}$, Potassium carbonate
Hypochlorous acid	HOCl aqueous	Potassium bicarbonate	KHCO_3 , Potassium hydrogen carbonate
I IMS	Industrial Methylated spirit, Rectified spirit containing less than 10% Methanol	Potassium bisulphate	KHSO_4 , Potassium hydrogen carbonate
Iodine, tincture of	Contains I_2 and KI in Rectified spirit	Potassium bisulphite	$\text{K}_2\text{S}_2\text{O}_5$
K Kerosene	Paraffin C_{12} - C_{16} distilled from Petroleum, Coal or Shale	Potassium bromate	KBrO_3
L Lactic acid	$\text{CH}_3 \cdot \text{CHOH} \cdot \text{COOH}$	Potassium bromide	KBr
Lanolin	Woolfat	Potassium carbonate	K_2CO_3 , $\text{K}_2\text{CO}_3 \cdot \frac{1}{2}\text{H}_2\text{O}$, Potash
Lead acetate	$(\text{CH}_3\text{COO})_2\text{Pb} \cdot 3\text{H}_2\text{O}$	Potassium chlorate	KClO_3
Lime	CaO , Calcium oxide	Potassium chloride	KCl
M Magnesium carbonate	MgCO_3 , $\text{MgCO}_3 \cdot 3\text{H}_2\text{O}$, $\text{MgCO}_3 \cdot 5\text{H}_2\text{O}$, Magnesite	Potassium cyanide	KCN
Magnesium chloride	MgCl_2 , $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$	Potassium dichromate	$\text{K}_2\text{Cr}_2\text{O}_7$
Magnesium hydroxide	$\text{Mg}(\text{OH})_2$	Potassium ferricyanide	$\text{K}_3\text{Fe}(\text{CN})_6$, Potassium hexacyanoferrate (III)
Magnesium nitrate	$\text{Mg}(\text{NO}_3)_2 \cdot 2\text{H}_2\text{O}$, $\text{Mg}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	Potassium ferrocyanide	$\text{K}_4\text{Fe}(\text{CN})_6 \cdot 3\text{H}_2\text{O}$, Potassium hexacyanoferrate (II)
Magnesium sulphate	MgSO_4 , $\text{MgSO}_4 \cdot \text{H}_2\text{O}$, $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$, Epsom salts	Potassium fluoride	KF
Mercuric chloride	HgCl_2 , Mercury (II) chloride	Potassium hydroxide	KOH , Caustic potash
Mercurous nitrate	$\text{Hg}_2(\text{NO}_3)_2 \cdot 2\text{H}_2\text{O}$, Mercury (I) nitrate	Potassium iodate	KIO_3
Mercury	Hg , Quicksilver	Potassium iodide	KI
Mesityl oxide	$(\text{CH}_3)_2\text{C} \cdot \text{CH} \cdot \text{CO} \cdot \text{CH}_3$	Potassium metaborate	KBO_2
Metallic soaps	Fatty acid salts of Copper, Aluminium, Lithium, Calcium etc.	Potassium nitrate	KNO_3 , Saltpetre
Methane	CH_4	Potassium permanganate	KMnO_4
Methyl acetate	$\text{CH}_3 \cdot \text{COO} \cdot \text{CH}_3$	Potassium persulphate	$\text{K}_2\text{S}_2\text{O}_8$
Methyl alcohol	CH_3OH , Methanol	Potassium sulphate	K_2SO_4
Methyl carbitol	$\text{CH}_3 \cdot \text{O} \cdot \text{CH}_2\text{CH}_2 \cdot \text{O} \cdot \text{CH}_2\text{CH}_2\text{OH}$, Methylidigol	Potassium sulphite	$\text{K}_2\text{SO}_3 \cdot 2\text{H}_2\text{O}$
Methyl cellosolve	$\text{CH}_3 \cdot \text{O} \cdot \text{CH}_2\text{CH}_2\text{OH}$, 2-Methoxyethanol	Potassium thiosulphate	$\text{K}_2\text{S}_2\text{O}_3 \cdot x\text{H}_2\text{O}$
Methyl ethyl ketone	$\text{C}_2\text{H}_5 \cdot \text{CO} \cdot \text{CH}_3$, MEK, Butanone	Propionic acid	$\text{CH}_3 \cdot \text{CH}_2 \cdot \text{COOH}$
Methyl <i>iso</i> -butyl ketone	$(\text{CH}_3)_2\text{CH} \cdot \text{CH}_2 \cdot \text{CO} \cdot \text{CH}_3$, MIBK	<i>Iso</i> -Propyl alcohol	$(\text{CH}_3)_2 \cdot \text{CHOH}$, IPA, Propan-2-ol
Methyl methacrylate	$\text{CH}_2 \cdot \text{C}(\text{CH}_3) \cdot \text{COO} \cdot \text{CH}_3$	Propylene glycol	$\text{CH}_2(\text{CH}_2\text{OH})_2$, Propane-1, 2-diol, $\text{CH}_3 \cdot \text{CH}(\text{OH}) \cdot \text{CH}_2\text{OH}$, Propane-1,3-diol
Methylated spirits	Methylated spirits (Industrial)	Pyridine	$\text{C}_5\text{H}_5\text{N}$
Mineral oil	A hydrocarbon fraction distilled from Petroleum	R Rectified spirit	Ethyl alcohol containing about 4% Water
MSG	$\text{NH}_2 \cdot \text{CH}(\text{COOH}) \cdot \text{CH}_2 \cdot \text{COONa} \cdot \text{H}_2\text{O}$, L-Glutamic acid, Sodium salt	Refrigerant 22	CHClF_2
N Nickel chloride	NiCl_2 , $\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$	S Saltpetre	KNO_3 , Potassium nitrate
Nickel nitrate	$\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$, Nickel (II) nitrate	Slaked lime	$\text{Ca}(\text{OH})_2$, Calcium hydroxide
Nickel sulphate	NiSO_4 , $\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$	Sodium acetate	$\text{CH}_3 \cdot \text{COONa}$, $\text{CH}_3 \cdot \text{COONa} \cdot 3\text{H}_2\text{O}$
		Sodium aluminate	NaAlO_2
		Sodium benzoate	$\text{C}_6\text{H}_5 \cdot \text{COONa}$
		Sodium bicarbonate	NaHCO_3 , Bicarbonate of soda, Sodium hydrogen carbonate
		Sodium bisulphate	$\text{NaHSO}_4 \cdot \text{H}_2\text{O}$, Sodium hydrogen sulphate
		Sodium bisulphite	$\text{Na}_2\text{S}_2\text{O}_5$, Sodium metabisulphite
		Sodium bromate	NaBrO_3

Chemical Name	Formula and/or other description	Chemical Name	Formula and/or other description
Sodium bromide	NaBr	Tetralin	$\text{C}_6\text{H}_4\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2$
Sodium carbonate	Na_2CO_3 , $\text{Na}_2\text{CO}_3\cdot 10\text{H}_2\text{O}$, Soda	Thionyl chloride	SOCl_2 , Thionyl dichloride
Sodium chlorate	NaClO_3	Toluene	$\text{C}_6\text{H}_5\text{-CH}_3$
Sodium chloride	NaCl, Common salt, Cooking salt	Trichlorobenzene(s)	All isomers of $\text{C}_6\text{H}_3\text{Cl}_3$
Sodium cyanide	NaCN	Trichloroethylene	$\text{CHCl}_2\text{-CCl}_2$
Sodium dichromate	$\text{Na}_2\text{Cr}_2\text{O}_7\cdot 2\text{H}_2\text{O}$	Tricresyl phosphate	$(\text{CH}_3\text{-C}_6\text{H}_4)_3\text{PO}_4$
Sodium ferrocyanide	$\text{Na}_4\text{Fe}(\text{CN})_6\cdot 10\text{H}_2\text{O}$, Sodium hexacyanoferrate (II)		
Sodium fluoride	NaF	U Urea	$\text{NH}_2\text{-CO-NH}_2$
Sodium hydroxide	NaOH, Caustic soda	Uric acid	$\text{C}_5\text{H}_4\text{N}_4\text{O}_3$
Sodium hypochlorite	NaOCl		
Sodium iodide	NaI	V Vaseline	A petroleum jelly
Sodium metabisulphite	$\text{Na}_2\text{S}_2\text{O}_5$, Sodium bisulphite	Vinegar	Containing up to 10% Acetic acid, mineral salts and traces of esters
Sodium metaborate	NaBO_2 , $\text{NaBO}_2\cdot 4\text{H}_2\text{O}$		
Sodium nitrate	NaNO_3	Vinyl acetate	$\text{CH}_3\text{COO.CH:CH}_2$
Sodium nitrite	NaNO_2		
Sodium phosphate(s)	Na_2HPO_4 , $\text{Na}_3\text{PO}_4\cdot 12\text{H}_2\text{O}$, NaH_2PO_4 , $\text{Na}_4\text{P}_2\text{O}_7\cdot 10\text{H}_2\text{O}$	W Water	H_2O , distilled, deionized, demineralised, potable
Sodium silicate	A waterglass, $\text{NaO} \cdot x \text{SiO}_2$, where $x = 3$ to 5	Water-glass	Potassium or Sodium silicate
Sodium sulphate	Na_2SO_4 , $\text{Na}_2\text{SO}_4\cdot 10\text{H}_2\text{O}$, Glauber's salt	White spirit	Stoddard solvent
Sodium sulphite	Na_2SO_3 , $\text{Na}_2\text{SO}_3\cdot 7\text{H}_2\text{O}$		
di-Sodium tetraborate	$\text{Na}_2\text{B}_4\text{O}_7\cdot 10\text{H}_2\text{O}$, Borax	X Xylene	$\text{C}_6\text{H}_4(\text{CH}_3)_2$
Sodium thiosulphate	$\text{Na}_2\text{S}_2\text{O}_3$, $\text{Na}_2\text{S}_2\text{O}_3\cdot 5\text{H}_2\text{O}$		
Soft soap	Potassium salts of fatty acids	Z Zinc bromide	ZnBr_2
Stannic chloride	SnCl_4 , $\text{SnCl}_4\cdot 5\text{H}_2\text{O}$, Tin (IV) chloride	Zinc carbonate	Basic $\text{ZnCO}_3\cdot 2\text{ZnO}\cdot 3\text{H}_2\text{O}$
Stannous chloride	SnCl_2 , $\text{SnCl}_2\cdot 2\text{H}_2\text{O}$, Tin (II) chloride	Zinc chloride	ZnCl_2
Starch	All types of $(\text{C}_6\text{H}_{10}\text{O}_5)_x$	Zinc nitrate	$\text{Zn}(\text{NO}_3)_2\cdot 6\text{H}_2\text{O}$
Stearic acid	$\text{CH}_3\text{-(CH}_2\text{)}_{15}\text{-COOH}$	Zinc Oxide	ZnO
Stoddard solvent	White spirit	Zinc phosphate(s)	$\text{Zn}_3(\text{PO}_4)_2$, $\text{Zn}_3(\text{PO}_4)_2\cdot 4\text{H}_2\text{O}$, $\text{Zn}_3(\text{PO}_4)_2\cdot 8\text{H}_2\text{O}$
Sulphamic acid	$\text{NH}_2\text{-SO}_3\text{H}$	Zinc sulphate	$\text{ZnSO}_4\cdot 7\text{H}_2\text{O}$
Sulphur	All types S		
Sulphur dioxide	SO_2		
Sulphuric acid (Oleum)	H_2SO_4		
T Tannin	Tannic acid, derivatives of Polyhydroxybenzoic acid		
Tartaric acid	$(\text{COOH}\cdot\text{COOH})_2$		
1,1,2,2-Tetrachloroethane	$\text{CHCl}_2\text{-CHCl}_2$		
Tetrahydrofuran	$\text{CH}_2(\text{CH}_2)_2\text{-CH}_2\text{O}$		

Chemical resistance data

			ABS	PVC-U	PP	PVC-C	DM	FPM										ABS	PVC-U	PP	PVC-C	DM	FPM
A	Chemical & Conc	Usage	°C																				
	Acetaldehyde	Usual technical	20 40 60 80 100 120	- - - - - -	- - - - - -	0 0 0 0 0 0	- - - - - -	+ - - - - -	- - - - - -														
	Acetamide 5%	Aqueous	20 40 60 80 100 120	+ + - - - -	+ + - - - -																		
	Acetic acid 10%	Aqueous	20 40 60 80 100 120	+ + + - - -	+ + + - - -	+ + + + - -	+ - - - - -	+ - - - - -	- - - - - -														
	Acetic acid 50%	Aqueous	20 40 60 80 100 120	- - - - - -	+ + - - - -	+ + - - - -	- - - - - -	*	- - - - - -														
	Acetic acid 80%	Aqueous	20 40 60 80 100 120	- - - - - -	+ - - - - -	+ + - - - -	- - - - - -		- - - - - -														
	Acetic acid glacial	Usual technical	20 40 60 80 100 120	- - - - - -	- - - - - -	+ + - - - -	- - - - - -		- - - - - -														
	Acetic anhydride	Usual technical	20 40 60 80 100 120	- - - - - -	- - - - - -	*	- - - - - -	*	- - - - - -														
	Acetone	Usual technical	20 40 60 80 100 120	- - - - - -	- - - - - -	+ + + - - -	- - - - - -	+ - - - - -	- - - - - -														
	Acetophenone	Usual technical	20 40 60 80 100 120	- - - - - -	- - - - - -	+ - - - - -	- - - - - -																
	Acetyl chloride	Usual technical	20 40 60 80 100 120	- - - - - -	- - - - - -		- - - - - -																
	Acrylonitrile	Usual technical	20 40 60 80 100 120	- - - - - -	- - - - - -	* * * - - -	- - - - - -																
	Adipic acid	Saturated aqueous	20 40 60 80 100 120		+	* * * - - -	+ + + + - -																
	Chemical & Conc	Usage	°C																				
	Alcohol	Usual technical	20 40 60 80 100 120																				
	(see note 1)																						
	Allyl alcohol	Usual technical	20 40 60 80 100 120	- - - - - -		*	- - - - - -																
	Allyl chloride	Usual technical	20 40 60 80 100 120	- - - - - -	- - - - - -	0 0 0 0 0 0	- - - - - -																
	Alum(s) (See note 2)	Saturated aqueous	20 40 60 80 100 120	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
	Aluminium chloride	Saturated aqueous	20 40 60 80 100 120	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
	Aluminium fluoride	Saturated aqueous	20 40 60 80 100 120	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
	Aluminium hydroxide (see note 3)	Suspended aqueous	20 40 60 80 100 120	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
	Aluminium nitrate	Saturated aqueous	20 40 60 80 100 120	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
	Aluminium oxalate (see note 3)	Suspended aqueous	20 40 60 80 100 120	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
	Aluminium sulphate	Saturated aqueous	20 40 60 80 100 120	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
	Ammonia 35% Sp. gr. = 0.88	Aqueous	20 40 60 80 100 120	+	+	+	-	+															

+

Resistant

*

Likely to be resistant

0

Unlikely to be resistant

-

Unsuitable

No data

			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM
<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>							<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>						
Ammonia dry gas	Usual commercial	20	-	+	+	-	*	-	n-Amyl acetate	Usual technical	20	-	-	0	-	+	-
		40	-	+	+	-	-	-			40	-	-	0	-	-	-
		60	-	+	+	-	-	-			60	-	-	0	-	-	-
		80	-	-	-	-	-	-			80	-	-	0	-	-	-
		100	-	-	-	-	-	-			100	-	-	0	-	-	-
		120	-	-	-	-	-	-			120	-	-	0	-	-	-
Ammonia liquid	Usual commercial	20	-	-	-	-	*	-	n-Amyl alcohol	Usual technical	20	-	+	+	-	+	+
		40	-	-	-	-	-	-			40	-	-	+	-	+	+
		60	-	-	-	-	-	-			60	-	-	+	-	+	+
		80	-	-	-	-	-	-			80	-	-	-	-	+	+
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Ammonium carbonate (see note 4)	Saturated aqueous	20	+	+	+	+	*	*	n-Amyl alcohol	Usual technical	20	-	-	-	-	-	-
		40	-	-	-	-	-	-			40	-	-	-	-	-	-
		60	-	-	-	-	-	-			60	-	-	-	-	-	-
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Ammonium chloride (see note 4)	Saturated aqueous	20	+	+	+	+	+	+	Aniline	Usual technical	20	-	-	+	-	-	-
		40	+	+	+	+	+	+			40	-	-	-	-	-	-
		60	+	+	+	+	+	+			60	-	-	-	-	-	-
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Ammonium fluoride (see note 4)	Saturated aqueous	20	+	+	+	+	+	+	Animal glue, oils (see note 5)	Usual commercial	20	-	-	-	-	-	-
		40	-	-	-	-	-	-			40	-	-	-	-	-	-
		60	-	-	-	-	-	-			60	-	-	-	-	-	-
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Ammonium hydroxide Sp. gr. = 0.88	Aqueous	20	+	+	*	-	+	-	Antifreeze (see note 5)	Usual proprietary	20	-	-	-	-	-	-
		40	+	+	*	-	-	-			40	-	-	-	-	-	-
		60	+	+	*	-	-	-			60	-	-	-	-	-	-
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Ammonium molybdate Aqueous	Saturated	20	+	+	*	*	-	-	Antimony trichloride	Saturated aqueous	20	-	+	+	+	-	-
		40	-	-	-	-	-	-			40	-	+	+	+	-	-
		60	-	-	-	-	-	-			60	-	+	+	+	-	-
		80	-	-	-	-	-	-			80	-	-	-	+	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Ammonium nitrate	Saturated aqueous	20	+	+	+	+	*	*	Aqua regia	Usual technical	20	-	-	-	+	-	*
		40	+	+	+	+	*	*			40	-	-	-	-	-	-
		60	+	+	+	+	*	*			60	-	-	-	-	-	-
		80	-	-	-	+	*	*			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Ammonium persulphate	Saturated aqueous	20	+	+	+	+	*	*	Aromatic hydrocarbons	Various blends	20	-	-	-	-	-	*
		40	+	+	+	+	*	*			40	-	-	-	-	-	*
		60	+	+	+	+	*	*			60	-	-	-	-	-	*
		80	-	-	-	-	*	*			80	-	-	-	-	-	*
		100	-	-	-	-	-	-			100	-	-	-	-	-	*
		120	-	-	-	-	-	-			120	-	-	-	-	-	*
Ammonium phosphate(s)	Saturated aqueous	20	+	+	+	+	*	*	B								
		40	+	+	+	+	*	*	Barium bromide	Saturated aqueous	20	+	+	+	+	+	+
		60	+	+	+	+	*	*			40	+	+	+	+	+	+
		80	-	-	-	-	*	*			60	+	+	+	+	+	+
		100	-	-	-	-	-	-			80	-	-	+	+	+	+
		120	-	-	-	-	-	-			100	-	-	-	-	-	-
											120	-	-	-	-	-	-
Ammonium sulphate	Saturated aqueous	20	+	+	+	+	+	+	Barium carbonate (see note 6)	Saturated aqueous	20	+	+	+	+	+	+
		40	+	+	+	+	*	*			40	+	+	+	+	+	+
		60	+	+	+	+	*	*			60	+	+	+	+	+	+
		80	-	-	-	+	*	*			80	-	-	+	+	+	+
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Ammonium thiocyanate	Saturated aqueous	20	+	+	0	+	-	-	Barium chloride	Saturated aqueous	20	+	+	+	+	+	+
		40	+	+	0	+	-	-			40	+	+	+	+	+	+
		60	+	+	0	+	-	-			60	+	+	+	+	+	+
		80	-	-	0	+	-	-			80	-	-	+	+	+	+
		100	-	-	0	-	-	-			100	-	-	-	-	-	-
		120	-	-	0	-	-	-			120	-	-	-	-	-	-

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM
<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>							<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>						
Barium hydroxide	Saturated aqueous	20	+	+	+	+	+	+	Bromine	Anhydrous liquid	20	-	-	-	-	-	-
		40	+	+	+	+	+	+			40	-	-	-	-	-	-
		60	+	+	+	+	+	+			60	-	-	-	-	-	-
		80	-	-	+	+	+	+			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Barium sulphate (see note 6)	Saturated aqueous	20	+	+	+	+	+	+	Bromine water	Saturated aqueous	20	-	-	-	-	-	-
		40	+	+	+	+	+	+			40	-	-	-	-	-	-
		60	+	+	+	+	+	+			60	-	-	-	-	-	-
		80	-	-	+	+	+	+			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Battery acid Sp.gr.=1.18	Aqueous	20	+	+	+	+	+	+	Bromine, trace levels	Aqueous, for sterilization	20	+	+	+	+	+	+
		40	+	+	+	+	+	+			40	+	+	+	+	+	+
		60	+	+	+	+	+	+			60	+	+	+	+	+	+
		80	-	-	-	+	-	+			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Beer	Usual commercial	20	+	+	+	+	+	+	Butane	Gaseous	20	+	+	-	-	+	+
		40	-	-	-	-	-	-			40	+	+	-	-	+	+
		60	-	-	-	-	-	-			60	+	+	-	-	+	+
		80	-	-	-	-	-	-			80	-	-	-	-	+	+
		100	-	-	-	-	-	-			100	-	-	-	-	+	+
		120	-	-	-	-	-	-			120	-	-	-	-	+	+
Benzaldehyde	Usual technical	20	-	-	*	-	-	-	2-Butoxyethanol	Usual technical	20	-	-	-	-	-	-
		40	-	-	-	-	-	-			40	-	-	-	-	-	-
		60	-	-	-	-	-	-			60	-	-	-	-	-	-
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Benzene	Usual technical	20	-	-	-	-	-	-	Buttermilk	Usual commercial	20	+	+	+	*	+	+
		40	-	-	-	-	-	-			40	-	-	-	-	-	-
		60	-	-	-	-	-	-			60	-	-	-	-	-	-
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Benzoyl chloride	Usual technical	20	-	-	0	0	-	-	n-Butyl acetate	Usual technical	20	-	-	0	-	0	-
		40	-	-	0	0	-	-			40	-	-	0	-	0	-
		60	-	-	0	0	-	-			60	-	-	-	-	-	-
		80	-	-	0	0	-	-			80	-	-	-	-	0	-
		100	-	-	-	-	-	-			100	-	-	-	-	0	-
		120	-	-	-	-	-	-			120	-	-	-	-	0	-
Benzyl chloride	Usual technical	20	-	0	0	-	0	0	n-Butyl alcohol	Usual technical	20	-	+	-	-	+	+
		40	-	0	0	-	0	0			40	-	+	*	-	+	+
		60	-	0	0	-	0	0			60	-	+	*	-	+	+
		80	-	-	0	-	0	0			80	-	-	-	-	+	+
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Borax	Saturated aqueous	20	+	+	+	+	+	+	n-Butyric acid	Usual technical	20	-	-	-	-	0	*
		40	+	+	+	+	*	*			40	-	-	-	-	0	*
		60	+	+	+	+	*	*			60	-	-	-	-	0	*
		80	-	-	+	+	*	*			80	-	-	-	-	0	*
		100	-	-	-	-	-	-			100	-	-	-	-	0	*
		120	-	-	-	-	-	-			120	-	-	-	-	0	*
Boric acid	Saturated aqueous	20	+	+	+	+	+	+	C								
		40	+	+	+	+	+	+	Cab O-Sil (see note 3)	Suspended aqueous	20	+	+	+	+	+	+
		60	+	+	+	+	+	+			40	+	+	+	+	+	+
		80	-	-	+	+	*	*			60	+	+	+	+	+	+
		100	-	-	-	-	-	-			80	-	-	+	+	+	+
		120	-	-	-	-	-	-			100	-	-	-	-	-	-
											120	-	-	-	-	-	-
Brake fluids (see note 5)	Usual proprietary	20							Calcium bromide	Saturated aqueous	20	+	+	+	+	+	+
		40									40	+	+	+	+	+	+
		60									60	+	+	+	+	+	+
		80	-	-	-	-	-	-			80	-	-	+	+	+	+
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Brine (see note 7)	Usual proprietary	20	+	+	+	+	+	+									
		40	+	+	+	+	+	+									
		60	+	+	+	+	+	+									
		80	-	-	+	+	+	+									
		100	-	-	-	-	-	-									
		120	-	-	-	-	-	-									

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	PVC-C	M	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM
<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>							<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>						
Calcium carbonate (see note 6)	Saturated aqueous	20	+	+	+	+	+	+	Caustic Potash	Saturated aqueous	20	+	+	+	+	+	-
		40	+	+	+	+	+	+			40	+	+	+	+	+	-
		60	+	+	+	+	+	+			60	+	+	+	+	+	-
		80	-	-	+	+	+	+			80	-	-	+	+	+	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Calcium chloride	Saturated aqueous	20	+	+	+	+	+	+	Caustic soda 20%	Aqueous	20	+	+	+	+	+	*
		40	+	+	+	+	+	+			40	+	+	+	+	+	-
		60	+	+	+	+	+	+			60	+	+	+	+	+	-
		80	-	-	+	+	+	+			80	-	-	+	+	+	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Calcium hydroxide (see note 6)	Usual industrial	20	+	+	+	+	+	+	Caustic soda	Saturated aqueous	20	+	+	+	+	+	-
		40	+	+	+	+	+	+			40	+	+	+	+	+	-
		60	+	+	+	+	+	+			60	+	+	+	+	+	-
		80	-	-	+	+	+	+			80	-	-	+	+	+	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Calcium nitrate	Saturated aqueous	20	+	+	+	+	*	*	Cellosolve	Usual commercial	20	-	-	-	-	-	-
		40	+	+	+	+	*	*			40	-	-	-	-	-	-
		60	+	+	+	+	*	*			60	-	-	-	-	-	-
		80	-	-	+	+	*	*			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Calcium oxide (see note 8)	Powder	20	+	+	+	+	+	+	Cellosolve acetate	Usual commercial	20	-	-	-	0	0	-
		40	+	+	+	+	+	+			40	-	-	-	0	0	-
		60	+	+	+	+	+	+			60	-	-	-	0	0	-
		80	-	-	+	+	+	+			80	-	-	-	0	0	-
		100	-	-	-	-	-	-			100	-	-	-	0	0	-
		120	-	-	-	-	-	-			120	-	-	-	0	0	-
Calcium sulphate (see note 6)	Saturated aqueous	20	+	+	+	+	+	+	Chloral hydrate	Usual technical	20	-	-	0	-	-	-
		40	+	+	+	+	+	+			40	-	-	0	-	-	-
		60	+	+	+	+	+	+			60	-	-	0	-	-	-
		80	-	-	+	+	+	+			80	-	-	0	-	-	-
		100	-	-	-	-	-	-			100	-	-	0	-	-	-
		120	-	-	-	-	-	-			120	-	-	0	-	-	-
Carbon dioxide	Gaseous	20	+	+	+	+	+	+	Chlorine gas (dry) trace levels	Usual industrial	20	-	+	-	-	-	+
		40	+	+	+	+	+	+			40	-	-	-	-	-	+
		60	+	+	+	+	+	+			60	-	-	-	-	-	+
		80	-	-	+	+	+	+			80	-	-	-	-	-	+
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Carbon disulphide	Liquid	20	-	-	-	-	-	-	Chlorine gas (wet)	Usual industrial	20	-	-	-	-	-	-
		40	-	-	-	-	-	-			40	-	-	-	-	-	-
		60	-	-	-	-	-	-			60	-	-	-	-	-	-
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Carbon monoxide	Gaseous	20	+	+	+	+	+	+	Chlorine liquid	Usual industrial	20	-	-	-	-	-	-
		40	+	+	+	+	+	+			40	-	-	-	-	-	-
		60	+	+	+	+	+	+			60	-	-	-	-	-	-
		80	-	-	+	+	+	+			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Carbon tetrachloride	Usual commercial	20	-	-	-	-	-	+	Chlorine dioxide, trace levels	Aqueous, for Sterilization	20	+	+	+	+	+	-
		40	-	-	-	-	-	+			40	-	-	-	-	-	-
		60	-	-	-	-	-	+			60	-	-	-	-	-	-
		80	-	-	-	-	-	*			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Castor oil	Usual commercial	20	-	+	*	+	-	0	Chlorobenzene	Usual technical	20	-	-	-	-	-	+
		40	-	+	*	+	-	0			40	-	-	-	-	-	-
		60	-	+	*	+	-	0			60	-	-	-	-	-	-
		80	-	-	-	-	-	0			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Caustic Potash 20%	Aqueous	20	+	+	+	+	+	*	Chloroform	Usual technical	20	-	-	-	-	-	+
		40	+	+	+	+	+	-			40	-	-	-	-	-	-
		60	+	+	+	+	+	-			60	-	-	-	-	-	-
		80	-	-	+	+	+	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM
<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>							<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>						
Chromic acid (see note 9)	Saturated aqueous	20	-	*	-	+	-	+	Cresol(s)	Usual commercial	20	-	-	+	-	0	
		40	-	-	-	+	-				40	-	-	*	-	0	
		60	-	-	-	+	-				60	-	-	*	-	0	
		80	-	-	-	+	-				80	-	-	*	-	0	
		100	-	-	-	-	-				100	-	-	-	-	0	
		120	-	-	-	-	-				120	-	-	-	-	0	
Cider	Usual commercial	20	+	+	+	0	+	+	Cutting fluids (see note 5)	Usual industrial	20						
		40									40						
		60									60						
		80	-	-							80	-	-				
		100	-	-							100	-	-				
		120	-	-							120	-	-				
Citric acid 10%	aqueous	20	+	+	+	+	+	+	Cyclohexane	Usual technical	20	-	-	-	-	-	+
		40	+	+	+	+	+	+			40	-	-	-	-	-	
		60	+	+	+	+	+	+			60	-	-	-	-	-	
		80	-	+	+	+	+	+			80	-	-	-	-	-	
		100	-	-							100	-	-	-	-	-	
		120	-	-							120	-	-	-	-	-	
Coca-Cola	Usual proprietary	20	+	+	+		+	+	Cyclohexanol	Usual technical	20	-	0	*	-		*
		40									40	-			-		
		60									60	-			-		
		80	-	-							80	-	-		-		
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
Cooking salt	Saturated aqueous	20	+	+	+	+	+	+	Cyclohexanone	Usual technical	20	-	-		-	0	
		40	+	+	+	+	+	+			40	-	-		-	0	
		60	+	+	+	+	+	+			60	-	-	-	-	0	
		80	-	-	+	+	+	+			80	-	-	-	-	0	
		100	-	-							100	-	-	-	-	0	
		120	-	-							120	-	-	-	-	0	
Copper chloride(s)	Saturated aqueous	20	+	+	+	+	+	+	D								
		40	+	+	*	+	*	*	Dekalin	Usual technical	20	-	-	0	-		
		60	+	+	*	+	*	*			40	-	-	0	-		
		80	-	-	*	+	*	*			60	-	-	0	-		
		100	-	-							80	-	-	0	-		
		120	-	-							100	-	-	0	-		
											120	-	-	0	-		
Copper nitrate	Saturated aqueous	20	+	+	+	+	*	*	Detergents (see note 5)	Usual proprietary	20						
		40	+	+	+	+	*	*			40						
		60	+	+	+	+	*	*			60						
		80	-	-		+	*	*			80	-	-				
		100	-	-							100	-	-				
		120	-	-							120	-	-				
Copper sulphate	Saturated aqueous	20	+	+	+	+	+	+	Developers, photographic (see note 5)	Usual industrial	20						
		40	+	+	+	+	+	*			40						
		60	+	+	+	+	+	*			60						
		80	-	-	+	+	+	*			80	-	-				
		100	-	-							100	-	-				
		120	-	-							120	-	-				
Corn oil	Usual commercial	20	-	+	+	-	-	+	Dextrins	Saturated aqueous	20	+	+	+	+	*	*
		40	-	+	+	-	-	+			40	+	+	+	+	*	*
		60	-	+	+	-	-	+			60	+	+	+	+	*	*
		80	-	-				+			80	-	-	+	+	*	*
		100	-	-							100	-	-				
		120	-	-							120	-	-				
Cottonseed oil	Usual commercial	20	-	+	+	-	-	+	Dextrose	Saturated aqueous	20	+	+	+	+	+	+
		40	-	+	+	-	-	+			40	+	+	+	+		
		60	-	+	+	-	-	+			60	+	+	+	+		
		80	-	-				+			80	-	-		+		
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
Creosote	Usual commercial	20	-	0	0	-	-	+	Di-iso-butyl ketone	Usual technical	20	-	-		-	*	-
		40	-	0	0	-	-	*			40	-	-		-	-	-
		60	-	0	0	-	-	*			60	-	-	0	-	-	-
		80	-	-	0	-	-	*			80	-	-	0	-	-	-
		100	-	-	0	-	-				100	-	-	0	-	-	-
		120	-	-	0	-	-				120	-	-	0	-	-	-
									Di-n-butyl phthalate	Usual technical	20	-	-	0	-	-	
											40	-	-	0	-	-	
											60	-	-	0	-	-	
											80	-	-	0	-	-	
											100	-	-	0	-	-	
											120	-	-	0	-	-	

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM
<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>							<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>						
Dichlorobenzene(s)	Usual technical	20	-	-	-	-	+		Drinking water	Usual domestic	20	+	+	+	+	+	+
		40	-	-	-	-	+				40	+	+	+	+	+	+
		60	-	-	-	-	+				60	+	+	+	+	+	+
		80	-	-	-	-					80	-	-	+	+	+	+
		100	-	-	-	-					100	-	-		-		
		120	-	-	-	-					120	-	-		-		
									E								
1,2-Dichloroethane	Usual technical	20	-	-	-	-	-		EDTA	Saturated aqueous	20	+	+	+	+	+	+
		40	-	-	-	-	-				40	+	+	+	+		
		60	-	-	-	-	-				60	+	+	+	+		
		80	-	-	-	-	-				80	-	-		+		
		100	-	-	-	-	-				100	-	-		+		
		120	-	-	-	-	-				120	-	-		+		
1,1-Dichloroethylene	Usual technical	20	-	-	-	-	-		Emulsifiers (see note 5)	Usual proprietary	20						
		40	-	-	-	-	-				40						
		60	-	-	-	-	-				60						
		80	-	-	-	-	-				80						
		100	-	-	-	-	-				100	-	-		-		
		120	-	-	-	-	-				120	-	-		-		
Dichloromethane	Usual technical	20	-	-	-	-	-		Emulsions photographic (see note 5)	Usual industrial	20						
		40	-	-	-	-	-				40						
		60	-	-	-	-	-				60						
		80	-	-	-	-	-				80		-				
		100	-	-	-	-	-				100	-	-		-		
		120	-	-	-	-	-				120	-	-		-		
1,2-Dichloropropane	Usual technical	20	-	-	-	-	-		2-Ethoxyethanol	Usual commercial	20	-	-		-		
		40	-	-	-	-	-				40	-	-		-		
		60	-	-	-	-	-				60	-	-		-		
		80	-	-	-	-	-				80	-	-		-		
		100	-	-	-	-	-				100	-	-		-		
		120	-	-	-	-	-				120	-	-		-		
Diesel	Usual commercial	20							2-Ethoxyethyl acetate	Usual commercial	20	-	-		-	0	-
		40									40	-	-		-	0	-
		60									60	-	-		-	0	-
		80									80	-	-		-	0	-
		100	-	-		-					100	-	-		-	0	-
		120	-	-		-					120	-	-		-	0	-
Diethanolamine	Usual technical	20	+	*	+				Ethyl acetate	Usual technical	20	-	-		-	+	0
		40	+	*	+						40	-	-		-	0	0
		60	*	*	+						60	-	-		-	0	0
		80	-	-	+						80	-	-		-	0	0
		100	-	-		-					100	-	-		-	0	0
		120	-	-		-					120	-	-		-	0	0
Diethyl ether	Usual technical	20	-	-	0	-	-		Ethyl acrylate	Usual technical	20	-	-		-		
		40	-	-	0	-	-				40	-	-		-		
		60	-	-	0	-	-				60	-	-		-		
		80	-	-	0	-	-				80	-	-		-		
		100	-	-	0	-	-				100	-	-		-		
		120	-	-	0	-	-				120	-	-		-		
Diethyl phthalate	Usual technical	20	-	-	0	-	-		Ethyl alcohol	Usual technical	20	-	+	+	-	+	+
		40	-	-	0	-	-				40	-	-		-		
		60	-	-	0	-	-				60	-	-		-		
		80	-	-	0	-	-				80	-	-		-		
		100	-	-	0	-	-				100	-	-		-		
		120	-	-	0	-	-				120	-	-		-		
Dimethylformamide	Usual technical	20	-	-		-			Ethyl chloride	Usual technical	20	-	-	-	-	-	+
		40	-	-		-					40	-	-	-	-	-	
		60	-	-	0	-					60	-	-	-	-	-	
		80	-	-	0	-					80	-	-	-	-	-	
		100	-	-	0	-					100	-	-	-	-	-	
		120	-	-	0	-					120	-	-	-	-	-	
Di-octyl phthalate	Usual commercial	20	-	-	0	-	-		Ethyl ether	Usual technical	20	-	-	0	-	-	-
		40	-	-	0	-	-				40	-	-	0	-	-	-
		60	-	-	0	-	-				60	-	-	0	-	-	-
		80	-	-	0	-	-				80	-	-	0	-	-	-
		100	-	-	0	-	-				100	-	-	0	-	-	-
		120	-	-	0	-	-				120	-	-	0	-	-	-
1,4-Dioxan	Usual technical	20	-	-		0	-		Ethylene glycol	Usual commercial	20	+	+	+	-	+	+
		40	-	-		0	-				40	+	+	+	-	*	+
		60	-	-		0	-				60	+	+	+	-	*	+
		80	-	-		0	-				80	-	-		-	*	+
		100	-	-		0	-				100	-	-		-		
		120	-	-		0	-				120	-	-		-		

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM
<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>							<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>						
Ethylene oxide	Usual commercial	20	-	-	-	-	0	0	Formalin	Usual technical	20	-		*		*	*
		40	-	-	-	-	0	0			40	-					
		60	-	-	-	-	0	-			60	-					
		80	-	-	-	-	0	-			80	-	-				
		100	-	-	-	-	0	-			100	-	-	-			
		120	-	-	-	-	0	-			120	-	-	-			
Expandite PJ700	Proprietary mastic	20	+	+					Formic acid 3%	Aqueous	20	+	+	+	+	+	
		40									40	+	+	+	+		
		60									60	+	+	+	+		
		80									80	-	-		+		
		100	-	-	-						100	-	-	-	-		
		120	-	-	-						120	-	-	-	-		
F																	
Fatty acids (see note 18)	Usual technical	20							Formic acid 50%	Aqueous	20	-	*	+	-	+	
		40									40	-	*		-		
		60									60	-	*		-		
		80									80	-	-		-		
		100	-	-	-						100	-	-	-	-		
		120	-	-	-						120	-	-	-	-		
Ferric chloride	Saturated aqueous	20	-	+	+	+	+	+	Formic acid 90%	Usual technical	20	-		*	-	+	
		40	-	+	+	+	+	*			40	-			-		
		60	-	+	+	+	+	*			60	-			-	-	
		80	-	-		+	+	*			80	-	-		-	-	
		100	-	-	-						100	-	-	-	-	-	
		120	-	-	-						120	-	-	-	-	-	
Ferric nitrate	Saturated aqueous	20	+	+	+	+	-	*	Fructose	Usual technical	20	+	+	+	+	+	+
		40	+	+	+	+					40	+	+	+	+	+	+
		60	+	+	+	+					60	+	+	+	+	+	+
		80	-	-		+					80	-	-		+	+	+
		100	-	-	-						100	-	-	-	-		
		120	-	-	-						120	-	-	-	-		
Ferric sulphate (see note 4)	Saturated aqueous	20	+	+	+	+	+	*	Furfural	Usual technical	20	-	-	-	-	-	0
		40					+				40	-	-	-	-	-	0
		60					+				60	-	-	-	-	-	0
		80	-	-		+					80	-	-	-	-	-	
		100	-	-	-						100	-	-	-	-	-	
		120	-	-	-						120	-	-	-	-	-	
Ferrous chloride	Saturated aqueous	20	+	+	+	+	*	*	Furfuryl alcohol	Usual technical	20	-	-	*			
		40	+	+	+	+	*	*			40	-	-				
		60	+	+	+	+	*	*			60	-	-				
		80	-	-		+					80	-	-				
		100	-	-	-						100	-	-	-			
		120	-	-	-						120	-	-	-			
Ferrous sulphate	Saturated aqueous	20	+	+	+	+	+	*	G								
		40	+	+	+	+	+	*	Gasoline	Usual commercial	20	-	-	-	-	-	+
		60	+	+	+	+	+	*			40	-	-	-	-	-	
		80	-	-		+	+	*			60	-	-	-	-	-	
		100	-	-	-						80	-	-	-	-	-	
		120	-	-	-						100	-	-	-	-	-	
											120	-	-	-	-	-	
Fixing solutions (see note 5)	Usual industrial	20							Gelatin(e)	Usual commercial	20	+	+	+	+	+	+
		40									40	+	+	+	+	+	+
		60									60	+	+	+	+	+	+
		80	-	-							80	-	-		+	+	+
		100	-	-	-						100	-	-	-	-		
		120	-	-	-						120	-	-	-	-		
Fluorine	Pure gas	20	-	-	-	-			Glucose, D or L	Saturated aqueous	20	+	+	+	+	+	+
		40	-	-	-	-					40	+	+	+	+	+	+
		60	-	-	-	-					60	+	+	+	+	+	+
		80	-	-	-	-					80	-	-		+	+	+
		100	-	-	-	-					100	-	-	-	-		
		120	-	-	-	-					120	-	-	-	-		
Fluorosilicic acid 35% Aqueous		20	+	+	+	+	*	*	Glycerin(e)	Usual commercial	20	+	+	+	+	+	+
		40	+	+	+						40	+	+	+	+	+	+
		60	+	+	+						60	+	+	+	+	+	+
		80	-	-		-					80	-	-		+	+	+
		100	-	-	-	-					100	-	-	-	-		
		120	-	-	-	-					120	-	-	-	-		
Flutec PP3	Usual technical	20	+	+	+		*	*	Gypsum (see note 6)	Saturated aqueous	20	+	+	+	+	+	+
		40									40	+	+	+	+	+	+
		60									60	+	+	+	+	+	+
		80	-	-	-						80	-	-	+	+	+	+
		100	-	-	-						100	-	-	-	-		
		120	-	-	-						120	-	-	-	-		

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			H						I						J						K						L					
			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM						
H	Chemical & Conc <i>n</i> -Heptane	Usage	°C																													
		Usual technical	20	-	0	0	-	-	+																							
			40	-	0	0	-	-																								
			60	-	0	0	-	-																								
			80	-	-	0	-	-																								
			100	-	-	0	-	-																								
			120	-	-	0	-	-																								
<i>n</i> -Hexane	Usual technical	20	-	0	0	-	-	+																								
		40	-	0	0	-	-																									
		60	-	0	0	-	-																									
		80	-	-	0	-	-																									
		100	-	-	0	-	-																									
		120	-	-	0	-	-																									
Hydrazine (see note 10)	Usual technical	20																														
		40																														
		60																														
		80		-																												
		100	-	-		-																										
		120	-	-		-																										
Hydrazine hydrate	Usual technical	20	*	+	*		+																									
		40																														
		60																														
		80		-																												
		100	-	-		-																										
		120	-	-		-																										
Hydrochloric acid 10% Aqueous		20	+	+	+	+	+	+																								
		40	+	+	+		+	+																								
		60	+	+	+			+																								
		80	-	-																												
		100	-	-		-																										
		120	-	-		-																										
Hydrochloric acid 30% Aqueous (see note 19)		20	+	+	+	+	*	+																								
		40	+	+	+			+																								
		60	*	+	+			+																								
		80	-	-																												
		100	-	-		-																										
		120	-	-		-																										
Hydrochloric acid 37% Aqueous (see note 19)		20	+	+	+	+	*	+																								
		40		+	+			+																								
		60		+	+																											
		80	-	-		-																										
		100	-	-		-																										
		120	-	-		-																										
Hydrofluoric acid 40% Aqueous (see note 19)		20		0	+	-	*	+																								
		40		0	+	-																										
		60		0	+	-																										
		80		-	-	-																										
		100	-	-	-	-																										
		120	-	-	-	-																										
Hydrofluoric acid 60% Aqueous (see note 19)		20		0	+	-	0	+																								
		40		0	+	-	0																									
		60		0	+	-	0																									
		80		-	-	-	0																									
		100	-	-	-	-	0																									
		120	-	-	-	-	0																									
Hydrofluoric acid anhydrous	Anhydrous	20				-	-	+																								
		40				-	-																									
		60				-	-																									
		80		-		-	-	0																								
		100	-	-		-	-	0																								
		120	-	-		-	-	0																								
Hydrogen	Gaseous	20	+	+	+	+	+	+																								
		40	+	+	+	+	+	+																								
		60	+	+	+	+	+	+																								
		80	-	-	+	+	+	+																								
		100	-	-		-																										
		120	-	-		-																										
Hydrogen peroxide 3%	10 vols aqueous	20	+	+	+	+	*	+																								
		40		+	+																											
		60		+	+																											
		80	-	-																												
		100	-	-		-																										
		120	-	-		-																										

□ No data

			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM
Chemical & Conc Latex, natural	Usage Unadulterated emulsion	°C							Chemical & Conc Mercuric chloride	Usage Saturated aqueous	°C						
		20	+	+	+	+	+	+			20	*	+	+	+	+	+
		40									40		+	+	+		
		60									60			+	+		
		80		-							80		-		+		
		100	-	-		-					100	-	-		-		
Latex, synthetic (see note 5)	Emulsion	120	-	-		-					120	-	-		-		
		20							Mercurous nitrate	Saturated aqueous	20	*	+	+	*	*	*
		40									40	*	+	+	*		
		60									60	*	+	+	*		
		80		-							80	-	-		*		
		100	-	-		-					100	-	-		-		
Lead acetate	Saturated aqueous	120	-	-		-					120	-	-		-		
		20	+	+	+	+	*	*	Mercury	Metallic liquid	20	+	+	+	+	+	+
		40	+	+	+	+					40				+		
		60	+	+	+	+					60				+		
		80	-	-		+					80		-		+		
		100	-	-		-					100	-	-		-		
Lemon juice	Usual commercial	120	-	-		-					120	-	-		-		
		20	+	+	+	+	+	+	Mesityl oxide	Usual technical	20	-	-				
		40	+	+	+	+	+	+			40	-	-				
		60	+	+	+	+	+	+			60	-	-				
		80	-	-	+	+	+	+			80	-	-				
		100	-	-		-					100	-	-		-		
Lemonade	Usual commercial	120	-	-		-					120	-	-		-		
		20	+	+	+	+	+	+	Metallic soaps	Suspended aqueous	20	+	+	+	*	+	+
		40									40	+	+	+	*	*	*
		60									60	+	+	+	*	*	*
		80	-	-							80	-	-		*	*	*
		100	-	-		-					100	-	-		-		
Lime (see note 6)	Powder	120	-	-		-					120	-	-		-		
		20	+	+	+	+	+	+	Methane	Landfill gas	20	*			-	+	
		40	+	+	+	+	+	+			40				-		
		60	+	+	+	+	+	+			60				-		
		80	-	-	+	+	+	+			80		-		-		
		100	-	-		-					100	-	-		-		
Linseed oil	Raw or boiled	120	-	-		-					120	-	-		-		
		20	-	+	+	-	-	+	Methyl acetate	Usual technical	20	-	-		-	+	0
		40	-	+	+	-	-	+			40	-	-		-	0	0
		60	-	+	+	-	-	+			60	-	-		-	0	0
		80	-	-		-	-	+			80	-	-		-	0	0
		100	-	-		-	-				100	-	-		-		
Magnesium carbonate (see note 6)	Saturated aqueous	120	-	-		-					120	-	-		-		
		20	+	+	+	+	+	+	Methyl alcohol	Usual technical	20	-		+	-	+	
		40	+	+	+	+	+	+			40	-			-		
		60	+	+	+	+	+	+			60	-			-		
		80	-	-	+	+	+	+			80	-	-		-		
		100	-	-		-					100	-	-		-		
Magnesium chloride	Saturated aqueous	120	-	-		-					120	-	-		-		
		20	+	+	+	+	+	+	Methyl carbitol	Usual commercial	20	-	-		-		
		40	+	+	+	+	+	+			40	-	-		-		
		60	+	+	+	+	+	+			60	-	-		-		
		80	-	-	+	+	+	+			80	-	-		-		
		100	-	-		-					100	-	-		-		
Magnesium hydroxide (see note 6)	Saturated aqueous	120	-	-		-					120	-	-		-		
		20	+	+	+	+	+	+	Methyl cellosolve	Usual commercial	20	-	-		-		
		40	+	+	+	+	+	+			40	-	-		-		
		60	+	+	+	+	+	+			60	-	-		-		
		80	-	-	+	+	+	+			80	-	-		-		
		100	-	-		-					100	-	-		-		
Magnesium nitrate	Saturated aqueous	120	-	-		-					120	-	-		-		
		20	+	+	+	+	+	+	Methyl ethyl ketone	Usual technical	20	-	-		-	+	-
		40	+	+	+	+	+	+			40	-	-		-	-	-
		60	+	+	+	+	+	+			60	-	-		-	-	-
		80	-	-	+	+	+	+			80	-	-		-	-	-
		100	-	-		-					100	-	-		-	-	-
Magnesium sulphate	Saturated Aqueous	120	-	-		-					120	-	-		-	-	-
		20	+	+	+	+	+	+	Methyl-iso-butyl ketone	Usual technical	20	-	-		-	+	-
		40	+	+	+	+	+	+			40	-	-		-	-	-
		60	+	+	+	+	+	+			60	-	-		-	-	-
		80	-	-	+	+	+	+			80	-	-		-	-	-
		100	-	-		-					100	-	-		-	-	-
		120	-	-		-					120	-	-		-	-	-

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	CORZAN	EPDM	FPM				ABS	PVC-U	PP	CORZAN	EPDM	FPM
<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>							<i>Chemical & Conc</i>	<i>Usage</i>	<i>°C</i>						
Methyl methacrylate	Usual technical	20	-	-	0	-			Nitric acid, 40% (see note 19)	Usual technical	20	-	+	-	+	-	+
		40	-	-	0	-					40	-	-	-	-	-	-
		60	-	-	0	-					60	-	-	-	-	-	-
		80	-	-	0	-					80	-	-	-	-	-	-
		100	-	-	0	-					100	-	-	-	-	-	-
		120	-	-	0	-					120	-	-	-	-	-	-
Methylated spirits (industrial)	Usual commercial	20	-	*	*	-	*	*	Nitric acid, 50% (see note 19)	Usual technical	20	-	+	-	+	-	*
		40	-	*	*	-	*	*			40	-	-	-	-	-	-
		60	-	*	*	-	*	*			60	-	-	-	-	-	-
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Milk	From any animal	20	+	+	+	+	+	+	Nitric acid, 70% (see note 19)	Usual technical	20	-	+	-	+	-	*
		40	+	+	+	+	+	+			40	-	-	-	-	-	-
		60	+	+	+	+	+	+			60	-	-	-	-	-	-
		80	-	-	+	-	+	+			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Mineral oil (see note 11)	Usual proprietary	20							Nitrobenzene	Usual technical	20	-	-	*	-	*	*
		40									40	-	-	-	-	-	-
		60									60	-	-	-	-	-	-
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Molasses	Usual commercial	20	+	+	+		*	*	Nitrotoluene	Usual technical	20	-	-	-	-	*	*
		40	+	+	+		*	*			40	-	-	-	-	-	-
		60	+	+	+		*	*			60	-	-	-	-	-	-
		80	-	-	-		-	-			80	-	-	-	-	-	-
		100	-	-	-		-	-			100	-	-	-	-	-	-
		120	-	-	-		-	-			120	-	-	-	-	-	-
MSG	Saturated aqueous	20	+	+	+		+	+	0 Oleic acid	Usual technical	20					-	-
		40	+	+	+		*	*			40					-	-
		60	+	+	+		*	*			60					-	-
		80	-	-	-		*	*			80	-	-	-	-	-	-
		100	-	-	-		-	-			100	-	-	-	-	-	-
		120	-	-	-		-	-			120	-	-	-	-	-	-
N Naphtha	Usual commercial	20	-		0		-	+	Oleum	Usual technical	20	-	-	-	-	-	+
		40	-		0		-	+			40	-	-	-	-	-	-
		60	-		0		-	+			60	-	-	-	-	-	-
		80	-	-	0		-	-			80	-	-	-	-	-	-
		100	-	-	0		-	-			100	-	-	-	-	-	-
		120	-	-	0		-	-			120	-	-	-	-	-	-
Nickel chloride	Saturated aqueous	20	+	+	+	+	+	+	Olive Oil	Usual commercial	20	-	+	+	-	-	+
		40	+	+	+	+	+	+			40	-	+	+	-	-	+
		60	+	+	+	+	+	+			60	-	+	+	-	-	+
		80	-	-	-	+	+	+			80	-	-	-	-	-	+
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Nickel nitrate	Saturated aqueous	20	+	+	+	+	+	+	Orange juice	Usual commercial	20	+	+	+	+	+	+
		40	+	+	+	+	+	+			40	+	+	+	+	+	+
		60	+	+	+	+	+	+			60	+	+	+	+	+	+
		80	-	-	-	+	+	+			80	-	-	+	+	+	+
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Nickel sulphate	Saturated aqueous	20	+	+	+	+	+	+	Oxalic acid	Saturated aqueous	20	+	+		+		
		40	+	+	+	+	+	+			40	*	+				
		60	+	+	+	+	+	+			60	*	+				
		80	-	-	+	+	+	+			80	-	-	-			
		100	-	-	-	-	-	-			100	-	-	-	-		
		120	-	-	-	-	-	-			120	-	-	-	-		
Nitric acid, fuming	Nitric acid, fuming	20	-	-	-	-	-	-	Oxygen	Gaseous	20	+	+	+	+		
		40	-	-	-	-	-	-			40	+	+	+	+		
		60	-	-	-	-	-	-			60	+	+	+	+		
		80	-	-	-	-	-	-			80	-	-	-	+		
		100	-	-	-	-	-	-			100	-	-	-	-		
		120	-	-	-	-	-	-			120	-	-	-	-		
Nitric acid, 10%	Usual technical	20	+	+	+	+	-	+	Ozone, trace levels	Aqueous, for sterilization	20	+	+	+	+	+	+
		40			*	+	-				40						
		60	-	-	*	+	-				60						
		80	-	-	-	+	-				80	-	-	-	-	-	-
		100	-	-	-	-	-				100	-	-	-	-	-	-
		120	-	-	-	-	-				120	-	-	-	-	-	-

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM
P	Chemical & Conc Paint (see note 5)	Usage Usual proprietary	20						Chemical & Conc Petroleum jelly	Usage Usual commercial	20	+	+	*			*
			40								40			*			
			60								60			*			
			80	-							80	-					
			100	-	-	-					100	-	-		-		
			120	-	-	-					120	-	-		-		
Palmitic acid	Usual technical	20		+		0	+		Phosphoric acid 85%	Usual technical	20	-	+	+	+	+	+
		40				0					40	-	+	+	+	+	+
		60				0					60	-	+	+	+	+	+
		80	-	-		0					80	-	-		+	+	+
		100	-	-	-						100	-	-		-		+
		120	-	-	-						120	-	-		-		
Paraffin (Liquid)	Usual technical	20	+		+				Plaster of Paris (see note 6)	Saturated aqueous	20	+	+	+	+	+	+
		40	+								40	+	+	+	+	+	+
		60	+								60	+	+	+	+	+	+
		80	-	-							80	-	-	+	+	+	+
		100	-	-	-						100	-	-		-		+
		120	-	-	-						120	-	-		-		
Paraffin fuel	Usual commercial	20				-	+		Plasticizers (see note 12)	Usual industrial	20						
		40				-	*				40						
		60				-	*				60						
		80	-			-	*				80	-	-				
		100	-	-	-	-					100	-	-	-			
		120	-	-	-	-					120	-	-		-		
n-Pentane	Usual technical	20	-	0	-	-	+		Polish (see note 5)	Usual proprietary	20						
		40	-	0	-	-	+				40						
		60	-	0	-	-					60						
		80	-	-	-	-					80	-	-				
		100	-	-	-	-					100	-	-	-			
		120	-	-	-	-					120	-	-	-			
Pepsi-cola	Usual proprietary	20	+	+	+	+	+		Potable water	Usual domestic	20	+	+	+	+	+	+
		40									40	+	+	+	+	+	+
		60									60	+	+	+	+	+	+
		80	-	-							80	-	-	+	+	+	+
		100	-	-	-						100	-	-		-		+
		120	-	-	-						120	-	-		-		
Peracetic acid, trace levels	Aqueous, for sterilization	20	+	+	+	+	+	+	Potash	Saturated aqueous	20	+	+	+	+	+	+
		40									40	+	+	+	+	+	+
		60									60	+	+	+	+	+	+
		80	-	-							80	-	-	+	+	+	+
		100	-	-	-						100	-	-		-		+
		120	-	-	-						120	-	-		-		
Perfume (see note 5)	Usual commercial	20							Potassium bicarbonate	Saturated aqueous	20	+	+	+	+	+	+
		40									40	+	+	+	+	+	+
		60									60	+	+	+	+	+	+
		80	-	-							80	-	-	+	+	+	+
		100	-	-	-						100	-	-		-		
		120	-	-	-						120	-	-		-		
Peroxyacetic acid trace levels	Aqueous, for sterilization	20	+	+	+	+	+	+	Potassium bisulphate	Saturated aqueous	20	+	+	+	+	+	+
		40									40	+	+	+	+	+	+
		60									60	+	+	+	+	+	+
		80	-	-							80	-	-	+	+	+	+
		100	-	-	-						100	-	-		-		+
		120	-	-	-						120	-	-		-		
Petrol	Usual commercial	20	-	-	-	-	+		Potassium bisulphite	Saturated aqueous	20	+	+	+	*	+	+
		40	-	-	-	-					40	+	+	+	*	+	+
		60	-	-	-	-					60	+	+	+	*	+	+
		80	-	-	-	-					80	-	-	+	*	+	+
		100	-	-	-	-					100	-	-		-		
		120	-	-	-	-					120	-	-		-		
Petroleum	Natural crude	20	-			0			Potassium bromate (see note 13)	Saturated aqueous	20	+	+	+	+	+	+
		40	-			0					40	+	+	+	+	+	+
		60	-			0					60	+	+	+	+	+	+
		80	-	-		0					80	-	-	+	+	+	+
		100	-	-	-	0					100	-	-		-		
		120	-	-	-	0					120	-	-		-		
Petroleum ether	Boiling 30-80°C	20	-	-	-	-	*		Potassium bromide (see note 14)	Saturated aqueous	20	+	+	+	+	+	+
		40	-	-	-	-					40	+	+	+	+	+	+
		60	-	-	-	-					60	+	+	+	+	+	+
		80	-	-	-	-					80	-	-	+	+	+	+
		100	-	-	-	-					100	-	-		-		
		120	-	-	-	-					120	-	-		-		

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	CORZAN	EPDM	FPM				ABS	PVC-U	PP	CORZAN	EPDM	FPM
<i>Chemical & Conc</i> Potassium carbonate	<i>Usage</i> Saturated aqueous	°C							<i>Chemical & Conc</i> Potassium metaborate	<i>Usage</i> Saturated aqueous	°C						
		20	+	+	+	+	+	+			+	+	+	+	+	+	
		40	+	+	+	+	+	+			+	+	+	+	+	+	
		60	+	+	+	+	+	+			+	+	+	+	+	+	
		80	-	-	+	+	+	+				-	-	+	+	+	
		100	-	-								100	-	-			+
120	-	-		-				120	-	-		-					
Potassium chlorate	Saturated aqueous	20	+	+	+	+	*	*	Potassium nitrate	Saturated aqueous	20	+	+	+	+	+	+
		40	+	+	+	+	*	*			40	+	+	+	+	+	+
		60	+	+	+	+	*	*			60	+	+	+	+	+	+
		80	-	-	+	+	*	*			80	-	-	+	+	+	+
		100	-	-		-					100	-	-		+	+	+
		120	-	-		-					120	-	-		-		
Potassium chloride	Saturated aqueous	20	+	+	+	+	+	+	Potassium permanganate	Saturated aqueous	20		+	+	+	+	
		40	+	+	+	+	+	+			40				+		
		60	+	+	+	+	+	+			60			+			
		80	-	-	+	+	+	+			80	-	-	-		+	
		100	-	-		-					100	-	-		-		
		120	-	-		-					120	-	-		-		
Potassium cyanide	Saturated aqueous	20	+	+	+	+	+	+	Potassium persulphate	Saturated aqueous	20	+	+	+	+	+	+
		40	+	+	+	+	+	+			40	+	+	+		+	+
		60	+	+	+	+	+	+			60	+	+	+	+	+	+
		80	-	-	+	+	+	+			80	-	-	+	+	+	+
		100	-	-							100	-	-		-		
		120	-	-		-					120	-	-		-		
Potassium dichromate	Saturated aqueous	20	+	+	+	+	+	+	Potassium sulphate	Saturated aqueous	20	+	+	+	+	+	+
		40	+	+	+	+	+	+			40	+	+	+	+	+	+
		60	+	+	+	+	+	+			60	+	+	+	+	+	+
		80	-	-	+	+	+	+			80	-	-	+	+	+	+
		100	-	-		-					100	-	-		+	+	+
		120	-	-		-					120	-	-		-		
Potassium ferricyanide	Saturated aqueous	20	+	+	+	+	+	+	Potassium sulphite	Saturated aqueous	20	+	+	+	+	+	+
		40	+	+	+	+	+	+			40	+	+	+	+	+	+
		60	+	+	+	+	+	+			60	+	+	+	+	+	+
		80	-	-	+	+	+	+			80	-	-	+	+	+	+
		100	-	-		-					100	-	-		-		
		120	-	-		-					120	-	-		-		
Potassium ferrocyanide	Saturated aqueous	20	+	+	+	+	+	+	Potassium thiosulphate	Saturated aqueous	20	+	+	+		+	+
		40	+	+	+	+	+	+			40	+	+	+		+	+
		60	+	+	+	+	+	+			60	+	+	+		+	+
		80	-	-	+	+	+	+			80	-	-	+	+	+	+
		100	-	-							100	-	-		-		
		120	-	-		-					120	-	-		-		
Potassium fluoride	Saturated aqueous	20	+	+	+	+	+	+	Propionic acid	usual technical	20	-	-	*	-	*	
		40	+	+	+	+	+	+			40	-	-		-		
		60	+	+	+	+	+	+			60	-	-		-		
		80	-	-	+	+	+	+			80	-	-		-		
		100	-	-		-					100	-	-		-		
		120	-	-		-					120	-	-		-		
Potassium hydroxide 20%	Aqueous	20	+	+	+	+	+	*	<i>iso</i> -Propyl alcohol	Usual technical	20			+	-	+	+
		40	+	+	+	+	+				40			+	-	+	+
		60	+	+	+	+	+				60			+	-	+	+
		80	-	-	+	+	+				80	-	-		-		
		100	-	-		-					100	-	-		-		
		120	-	-		-					120	-	-		-		
Potassium hydroxide	Saturated aqueous	20	+	+	+	+	+	-	Propylene glycol	Usual technical	20	+	+	+	-	+	+
		40	+	+	+	+	+	-			40	+	+		-		
		60	+	+	+	+	+	-			60	+	+		-		
		80	-	-	+	+	+	-			80	-	-		-		
		100	-	-		-					100	-	-		-		
		120	-	-		-					120	-	-		-		
Potassium iodate (see note 15)	Saturated aqueous	20	+	+	+	*	+	+	Pyridine	Usual technical	20	-	-	-	-	0	-
		40	+	+	+	*	+	+			40	-	-	-	-	0	-
		60	+	+	+	*	+	+			60	-	-	-	-	0	-
		80	-	-	+	*	+	+			80	-	-	-	-	0	-
		100	-	-							100	-	-	-	-	-	-
		120	-	-		-					120	-	-	-	-	-	-
Potassium iodide (see note 16)	Saturated aqueous	20	+	+	+	+	+	+	R Recitified spirit	Usual commercial	20	-	+	+	-	+	+
		40	+	+	+	+	+	+			40	-			-		
		60	+	+	+	+	+	+			60	-			-		
		80	-	-	+	+	+	+			80	-	-		-		
		100	-	-		-					100	-	-		-		
		120	-	-		-					120	-	-		-		

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM
S	Chemical & Conc Refrigerant 22	Usage	°C						Chemical & Conc Sodium bromide (see note 14)	Usage	Saturated aqueous	°C					
		Usual commercial	20	-	-	0	-	-				20	+	+	+	+	+
			40	-	-	0	-	-				40	+	+	+	+	+
			60	-	-	0	-	-				60	+	+	+	+	+
			80	-	-	0	-	-				80	-	-	+	+	+
			100	-	-	-	-	-				100	-	-	-	-	-
			120	-	-	-	-	-				120	-	-	-	-	-
	Saltpetre	Saturated aqueous	20	+	+	+	+	+	Sodium carbonate	Saturated aqueous	20	+	+	+	+	+	+
			40	+	+	+	+	+			40	+	+	+	+	+	+
			60	+	+	+	+	+			60	+	+	+	+	+	+
	Sea water	From anywhere	20	+	+	+	+	+	Sodium chlorate	Saturated aqueous	20	+	+	+	+	*	*
			40	+	+	+	+	+			40	+	+	+	+	*	*
			60	+	+	+	+	+			60	+	+	+	+	*	*
			80	-	-	+	+	+			80	-	-	+	+	*	*
			100	-	-	-	-	-			100	-	-	-	-	-	-
			120	-	-	-	-	-			120	-	-	-	-	-	-
	Slaked lime (see note 6)	Saturated aqueous	20	+	+	+	+	+	Sodium chloride	Saturated aqueous	20	+	+	+	+	+	+
			40	+	+	+	+	+			40	+	+	+	+	+	+
			60	+	+	+	+	+			60	+	+	+	+	+	+
			80	-	-	+	+	+			80	-	-	+	+	+	+
	Soda water	Usual commercial	20	+	+	+	+	+	Sodium cyanide	Saturated aqueous	20	+	+	+	+	+	+
			40	+	+	+	+	+			40	+	+	+	+	+	+
			60	+	+	+	+	+			60	+	+	+	+	+	+
			80	-	-	-	-	-			80	-	-	+	+	+	+
			100	-	-	-	-	-			100	-	-	-	-	-	-
			120	-	-	-	-	-			120	-	-	-	-	-	-
	Sodium acetate	Saturated aqueous	20	+	+	*	+	*	Sodium dichromate	Saturated aqueous	20	+	+	+	+	+	+
			40	+	+	*	+	*			40	+	+	+	+	+	+
			60	+	+	*	+	*			60	+	+	+	+	+	+
			80	-	-	*	+	*			80	-	-	+	+	+	+
	Sodium aluminate	Saturated aqueous	20	+	+	*	+	*	Sodium ferrocyanide	Saturated aqueous	20	+	+	+	+	+	+
			40	+	+	*	+	*			40	+	+	+	+	+	+
			60	+	+	*	+	*			60	+	+	+	+	+	+
			80	-	-	*	+	*			80	-	-	+	+	+	+
			100	-	-	-	-	-			100	-	-	-	-	-	-
			120	-	-	-	-	-			120	-	-	-	-	-	-
	Sodium benzoate	Saturated aqueous	20	+	+	*	+	*	Sodium fluoride	Saturated aqueous	20	+	+	+	+	+	+
			40	+	+	*	+	*			40	+	+	+	+	+	+
			60	+	+	*	+	*			60	+	+	+	+	+	+
			80	-	-	*	+	*			80	-	-	+	+	+	+
	Sodium bicarbonate	Saturated aqueous	20	+	+	+	+	+	Sodium hydroxide 20%	Aqueous	20	+	+	+	+	+	*
			40	+	+	+	+	+			40	+	+	+	+	+	*
			60	+	+	+	+	+			60	+	+	+	+	+	*
			80	-	-	+	+	+			80	-	-	+	+	+	*
			100	-	-	-	-	-			100	-	-	-	-	-	-
			120	-	-	-	-	-			120	-	-	-	-	-	-
	Sodium bisulphate	Saturated aqueous	20	+	+	+	+	+	Sodium hydroxide	Saturated aqueous	20	+	+	+	+	+	-
			40	+	+	+	+	+			40	+	+	+	+	+	-
			60	+	+	+	+	+			60	+	+	+	+	+	-
			80	-	-	+	+	+			80	-	-	+	+	+	-
	Sodium bisulphite	Saturated aqueous	20	+	+	+	+	+	Sodium hypochlorite 14%	14% Av. Chlorine	20	-	+	-	+	*	*
			40	+	+	+	+	+			40	-	-	-	-	-	-
			60	+	+	+	+	+			60	-	-	-	-	-	-
			80	-	-	+	+	+			80	-	-	-	-	-	-
			100	-	-	-	-	-			100	-	-	-	-	-	-
			120	-	-	-	-	-			120	-	-	-	-	-	-
	Sodium bromate (see note 13)	Saturated aqueous	20	+	+	+	+	+									
			40	+	+	+	+	+									
			60	+	+	+	+	+									
			80	-	-	+	+	+									
			100	-	-	-	-	-									
			120	-	-	-	-	-									

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM
<i>Chemical & Conc</i>	<i>Usage</i>	°C							<i>Chemical & Conc</i>	<i>Usage</i>	°C						
Sodium iodide (see note 16)	Saturated aqueous	20	+	+	+	+	+	+	Spindle oil (see note 5)	Usual industrial	20						
		40	+	+	+	+	+	+			40						
		60	+	+	+	+	+	+			60						
		80	-	-	+	+	+	+			80	-	-				
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
Sodium metabisulphite	Saturated aqueous	20	+	+	+	+	+	+	Stannic chloride	Saturated aqueous	20	+	+	+			+
		40	+	+	+	+	+	+			40	+	+	+			
		60	+	+	+	+	+	+			60	+	+	+			
		80	-	-	+	+	+	+			80	-	-	+			
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
Sodium metaborate (see note 17)	Saturated aqueous	20	+	+	+	+	+	+	Stannous chloride	Saturated aqueous	20	+	+	+			*
		40	+	+	+	+	+	+			40	*	*	+			
		60	+	+	+	+	+	+			60	*	*	+			
		80	-	-	+	+	+	+			80	-	-	+			
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
Sodium nitrate	Saturated aqueous	20	+	+	+	+	+	+	Starch	Saturated aqueous	20	+	+	+	+	+	+
		40	+	+	+	+	+	+			40	+	+	+	+	+	+
		60	+	+	+	+	+	+			60	+	+	+	+	+	+
		80	-	-	+	+	+	+			80	-	-	+	+	+	+
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
Sodium nitrite	Saturated aqueous	20	+	+	+	+	+	+	Steam	Usual industrial	20	-	-		-		
		40	+	+	+	+	+	+			40	-	-		-		
		60	+	+	+	+	+	+			60	-	-		-		
		80	-	-	+	+	+	+			80	-	-		-		
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
Sodium phosphate(s)	Saturated aqueous	20	+	+	+	+	+	+	Stearic acid (see note 3)	Suspended aqueous	20	+	+	+		+	*
		40	+	+	+	+	+	+			40	+	+	+		+	
		60	+	+	+	+	+	+			60	+	+	+		+	
		80	-	-	+	+	+	+			80	-	-				
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
Sodium silicate	Saturated aqueous	20	+	+	+	+	+	+	Stoddard solvent	Usual commercial	20	-		-		-	+
		40	+	+	+	+	+	+			40	-		-		-	
		60	+	+	+	+	+	+			60	-		-		-	
		80	-	-	+	+	+	+			80	-	-	-		-	
		100	-	-							100	-	-	-	-	-	
		120	-	-							120	-	-	-	-	-	
Sodium sulphate	Saturated aqueous	20	+	+	+	+	+	+	Sulphamic acid	Saturated aqueous	20	+	+	+	+	*	*
		40	+	+	+	+	+	+			40	+	+	+	+		
		60	+	+	+	+	+	+			60	+	+	+	+		
		80	-	-	+	+	+	+			80	-	-		+		
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
Sodium sulphite	Saturated aqueous	20	+	+	+	+	+	+	Sulphur (see note 3)	Suspended aqueous	20	+	+	+	+		
		40	+	+	+	+	+	+			40						
		60	+	+	+	+	+	+			60						
		80	-	-	+	+	+	+			80	-	-				
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
di-Sodium tetraborate	Saturated aqueous	20	+	+	+	+	+	+	Sulphur dioxide gas (dry)	Usual technical	20		+	+		*	*
		40	+	+	+	+	+	+			40		+	*			
		60	+	+	+	+	+	+			60		+	*			
		80	-	-	+	+	+	+			80	-	-	*			
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
Sodium thiosulphate	Saturated aqueous	20	+	+	+	+	+	+	Sulphur dioxide gas (wet)	Usual technical	20	-		+		*	*
		40	+	+	+	+	+	+			40	-		*			
		60	+	+	+	+	+	+			60	-		*			
		80	-	-	+	+	+	+			80	-	-				
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		
Soft soap	Emulsified in water	20	+	+	+	+	+	+	Sulphur dioxide liquid	Usual technical	20	-	-				*
		40	+	+	+	+	+	+			40	-	-				
		60	+	+	+	+	+	+			60	-	-				
		80	-	-	+	+	+	+			80	-	-				
		100	-	-							100	-	-		-		
		120	-	-							120	-	-		-		

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	FPM
<i>Chemical & Conc</i>	<i>Usage</i>	°C							<i>Chemical & Conc</i>	<i>Usage</i>	°C						
Sulphuric acid 10%	Aqueous	20	+	+	+	+	+	+	Tetrahydrofuran	Usual technical	20	-	-	0	-	-	-
		40	+	+	+	+	+	+			40	-	-	0	-	-	-
		60	+	+	+	+	+	+			60	-	-	0	-	-	-
		80	-	-	+	+	-	+			80	-	-	0	-	-	-
		100	-	-	-	-	-	-			100	-	-	0	-	-	-
		120	-	-	-	-	-	-			120	-	-	0	-	-	-
Sulphuric acid 30% Aqueous		20	+	+	+	+	-	+	Tetralin	Usual technical	20	-	-	-	-	-	-
		40	+	+	+	+	-	+			40	-	-	-	-	-	-
		60	+	+	+	+	-	+			60	-	-	-	-	-	-
		80	-	-	-	+	-	+			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Sulphuric acid 50% Aqueous		20	+	+	+	+	-	+	Thionyl chloride	Usual technical	20	-	-	-	-	-	0
		40	-	+	+	+	-	+			40	-	-	-	-	-	-
		60	-	+	+	+	-	+			60	-	-	-	-	-	-
		80	-	-	-	+	-	+			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Sulphuric acid 70% (see note 19)	Aqueous	20	-	+	+	+	-	+	Toluene	Usual technical	20	-	-	-	-	-	-
		40	-	+	+	+	-	+			40	-	-	-	-	-	-
		60	-	+	+	+	-	+			60	-	-	-	-	-	-
		80	-	-	-	+	-	+			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Sulphuric acid 90% (see note 19)	Aqueous	20	-	+	+	+	-	+	Tomato Juice	Usual commercial	20	+	+	+	+	+	+
		40	-	-	-	-	-	+			40	-	-	-	-	-	-
		60	-	-	-	-	-	+			60	-	-	-	-	-	-
		80	-	-	-	-	-	+			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Sulphuric acid 95% Aqueous		20	-	-	+	+	-	+	Transformer oil (see note 5)	Usual industrial	20	-	-	-	-	-	-
		40	-	-	-	-	-	+			40	-	-	-	-	-	-
		60	-	-	-	-	-	+			60	-	-	-	-	-	-
		80	-	-	-	-	-	+			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Sulphuric acid 98% Aqueous		20	-	-	-	+	-	+	Tri- <i>n</i> -butyl phosphate	Usual technical	20	-	-	-	-	-	-
		40	-	-	-	-	-	-			40	-	-	-	-	-	-
		60	-	-	-	-	-	-			60	-	-	-	-	-	-
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
Sulphuric acid, Oleum	Usual technical	20	-	-	-	-	-	+	Trichlorobenzene(s)	Usual technical	20	-	-	0	-	-	*
		40	-	-	-	-	-	-			40	-	-	0	-	-	-
		60	-	-	-	-	-	-			60	-	-	0	-	-	-
		80	-	-	-	-	-	-			80	-	-	0	-	-	-
		100	-	-	-	-	-	-			100	-	-	0	-	-	-
		120	-	-	-	-	-	-			120	-	-	0	-	-	-
Surfactants (see note 18)	Usual proprietary	20	-	-	-	-	-	-	Trichloroethylene	Usual technical	20	-	-	-	-	-	+
		40	-	-	-	-	-	-			40	-	-	-	-	-	+
		60	-	-	-	-	-	-			60	-	-	-	-	-	+
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
T																	
Tannin	10% Aqueous	20	-	+	+	+	+	+	Tricresyl phosphate	Usual industrial	20	-	-	0	-	*	+
		40	-	+	+	+	+	+			40	-	-	0	-	-	-
		60	-	+	+	+	+	+			60	-	-	0	-	-	-
		80	-	-	-	-	-	-			80	-	-	0	-	-	-
		100	-	-	-	-	-	-			100	-	-	0	-	-	-
		120	-	-	-	-	-	-			120	-	-	0	-	-	-
Tartaric acid	Saturated aqueous	20	+	+	+	+	-	+	Turpentine	Usual commercial	20	-	-	-	-	-	+
		40	+	+	+	+	-	+			40	-	-	-	-	-	+
		60	+	+	+	+	-	+			60	-	-	-	-	-	+
		80	-	-	-	-	-	-			80	-	-	-	-	-	-
		100	-	-	-	-	-	-			100	-	-	-	-	-	-
		120	-	-	-	-	-	-			120	-	-	-	-	-	-
1,1,1,2,2,-tetrachloroethane	Usual technical	20	-	-	-	-	-	+	U								
		40	-	-	-	-	-	-	Urea	Saturated aqueous	20	+	+	+	+	*	*
		60	-	-	-	-	-	-			40	+	+	+	+	-	-
		80	-	-	-	-	-	-			60	+	+	+	+	-	-
		100	-	-	-	-	-	-			80	-	-	-	-	-	-
		120	-	-	-	-	-	-			100	-	-	-	-	-	-
											120	-	-	-	-	-	-

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

			ABS	PVC-U	PP	PVC-C	DM	FPM				ABS	PVC-U	PP	PVC-C	DM	PM
Chemical & Conc	Usage	°C							Chemical & Conc	Usage	°C						
Uric acid (see note 3)	Suspended aqueous	20	+	+	+	+	+	+	Zinc bromide 40%	Aqueous	20	+	+	*			
		40	+	+	+	+	+	+			40	+	+				
		60	+	+	+	+	+	+			60	+	+				
		80	-	-	+	+	+	+			80	-	-				
		100	-	-							100	-	-				
Vaseline	Usual technical	20	+	+				+	Zinc bromide 60%	Aqueous	20	-	+	*			
		40	+	+							40	-	+				
		60	+	+							60	-	+				
		80	-	-							80	-	-				
		100	-	-							100	-	-				
Vinegar	Usual commercial	20	+	+	+	+	+	-	Zinc carbonate (see note 6)	Saturated aqueous	20	+	+	+		+	+
		40	+	+	*	+	+	-			40	+	+	+		+	+
		60	+	+		+	-	-			60	+	+	+		+	+
		80	-	-		+	-	-			80	-	-	+		+	+
		100	-	-			-	-			100	-	-				
Vinoleo 77/14	Proprietary grease	20	+	+	+	+	+	+	Zinc chloride 40%	Aqueous	20	+	+	*			
		40	+	+	+	+	+	+			40	+	+				
		60	+	+	+	+	+	+			60	+	+				
		80	-	-	+	+	+	+			80	-	-				
		100	-	-							100	-	-				
Vinyl acetate	Usual industrial	20	-	-					Zinc chloride 60%	Aqueous	20	-	+	*			
		40	-	-							40	-	+				
		60	-	-							60	-	+				
		80	-	-							80	-	-				
		100	-	-							100	-	-				
Water	Technical/ Domestic and Ultra Pure	20	+	+	+	+	+	+	Zinc nitrate	Saturated aqueous	20	+	+	+	+	*	*
		40	+	+	+	+	+	+			40	+	+	+	+		
		60	+	+	+	+	+	+			60	+	+	+	+		
		80	-	-	+	+	+	+			80	-	-	+	+		
		100	-	-							100	-	-				
Water glass	Saturated aqueous	20	+	+	+	+	+	+	Zinc oxide (see note 6)	Saturated aqueous	20	+	+	+		+	+
		40	+	+	+	+	+	+			40	+	+	+		+	+
		60	+	+	+	+	+	+			60	+	+	+		+	+
		80	-	-		+	+	+			80	-	-	+		+	+
		100	-	-							100	-	-				
Wetting agents (see note 5)	Usual proprietary	20							Zinc phosphate(s) (see note 3)	Suspended aqueous	20	+	+	+		+	+
		40									40	+	+	+		+	+
		60									60	+	+	+		+	+
		80	-	-							80	-	-	+		+	+
		100	-	-							100	-	-				
White spirit	Usual commercial	20	-	-			-	+	Zinc sulphate	Saturated aqueous	20	+	+	+	+	+	+
		40	-	-			-				40	+	+	+	+	+	+
		60	-	-			-				60	+	+	+	+	+	+
		80	-	-			-				80	-	-	+	+	+	+
		100	-	-			-				100	-	-				
Xylene	Usual technical	20	-	-	-	-	-	+			20	-	-				
		40	-	-	-	-	-				40	-	-				
		60	-	-	-	-	-				60	-	-				
		80	-	-	-	-	-				80	-	-				
		100	-	-	-	-	-				100	-	-				
Yeast	Suspended aqueous	20	+	+	+	+	+	+			20	+	+	+	+	+	+
		40									40						
		60									60						
		80	-	-		+					80	-	-				
		100	-	-							100	-	-				
		120	-	-						120	-	-					

+ Resistant

* Likely to be resistant

0 Unlikely to be resistant

- Unsuitable

□ No data

Notes

[illegible]

