

# Technical Data Sheet

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Turbine Meter  
VISION 2008 and 2006

## Chemical resistance of Grilon, Grilamid, **Grilamid TR, Grivory GV** and Grivory HTV

Plastics play a key role, both in industry and in everyday life. It is, however, extremely important that a specific plastic, unaffected by the environment surrounding it, is chosen for each application.

Generally speaking, polyamides are very resistant to all types of chemicals. Apart from concentrated acids, very few reagents attack polyamides.

The following table showing the chemical resistance of Grilamid, Grilamid TR, Grivory GV and Grilon offers guidance on the choice of polyamides for particular end uses.

The following table gives an indication of the chemical resistance of Grilon (polyamide 6 and 66), Grilamid (polyamide 12), Grilamid TR (transparent polyamide 12), Grivory GV (partially aromatic polyamide) and Grivory HTV (Polyphthalan 1). The chemical resistance was established by exposing test samples 1 mm thick, to each of the chemicals for a period of 12 months at room temperature. The results are valid both for unreinforced and for glass fibre reinforced products.

**Key:**

- Resistant. Negligible, reversible or no changes in mass and dimensions. Example: Grilon unaffected by aqueous and alcoholic media.
- Limited resistance. Considerable dimensional changes, and possibly irreversible changes in properties after prolonged contact. Consultation advisable before use.
- Not resistant. May be used under certain conditions (brief contact).
- Soluble or attacked after brief contact.

\* signifies data valid for all concentrations

Certain additives, particularly plasticizers, may be dissolved out into the medium. Absorption of the medium is generally sufficient, however, to compensate for any resultant loss in flexibility.

The data regarding chemical resistance refers to stress-free products. Stresses in parts of Grilamid TR can lead to cracking when coming into contact with specific solvents. Particular information can be found in the section «Environmental Stress Cracking».

**Environmental Stress Cracking of Grilamid TR**

Amorphous thermoplastics such as Grilamid TR can develop stress cracking when exposed to certain media. Components are more likely to develop stress cracking symptoms when they are subjected to external stresses, or when, through unsuitable processing, they have high internal stresses.

Grilamid TR 55, Grilamid TR 70 LX and Grilamid TR 90 are not resistant to the following chemicals and stress cracking may occur: Benzyl alcohol, butanol, butylene glycol, ethanol, isopropanol, methanol, phenyl ethyl alcohol, propanol.

Grilamid TR 55 and Grilamid TR 70 LZ have limited (short term) chemical resistance to the following chemicals but stress cracking may occur under conditions of high internal or external stress: Acetone, amyl acetate, benzaldehyde, butyl acetate, cyclohexanone, diethyl ether, etheric oils, ethyl acetate, isopropanol 80%, methyl ethyl ketone, phenyl ethyl alcohol, pyridine, tetrahydrofuran.

Grilamid TR 90 has limited (short term) resistance to the following chemicals, but stress cracking may occur in: amyl acetate, benzaldehyde, butyl acetate, cyclohexanone, etheric oils, phenyl ethyl alcohol, pyridine.

The chemical resistance is dependant both on the temperature and the stress condition of the finished component. The suitability of any material for a specific application must be confirmed by a practical test.

Medium	Chemical formula	Concentration	Resistance				
			Grilon	Grilamid	Grilamid TR	Grivory GV	Grivory HTV
Acetaldehyde	CH <sub>3</sub> -CHO	40 % aq. soln.	●●	●●●	●●	●●	●●
Acetamide	CH <sub>3</sub> -CO-NH <sub>2</sub>	50 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Acetic acid	CH <sub>3</sub> COOH	10 % aq. soln.	●	●●	●●	●	●●
Acetic acid	CH <sub>3</sub> COOH	40 % aq. soln.	○	●	●	○	●
Acetic acid	CH <sub>3</sub> COOH	technically pure	○	●	○	○	●
Acetic anhydride	CH <sub>3</sub> -CO-O-OC-CH <sub>3</sub>	technically pure	○	●●	●	●	○
Acetone	CH <sub>3</sub> -CO-CH <sub>3</sub>	technically pure	●●●	●●●	●	●●	●●●
Allyl alcohol	H <sub>2</sub> C=CH-CH <sub>2</sub> -OH	technically pure	●●	●	○	●●	●●
Aluminium salts	—	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Alums	K <sub>2</sub> SO <sub>4</sub> -Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 12 H <sub>2</sub> O	*, aq. soln.	●●	●●●	●●●	●●	●●●
Ammonia	NH <sub>3</sub>	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Ammonia	NH <sub>3</sub>	*, gaseous	●●●	●●●	●●●	●●●	●●●
Ammonium chloride	NH <sub>4</sub> Cl	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Ammonium salts	—	*, technically pure	●●	●●●	●●	●●	●●●
Amyl acetate	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> -OOCCH <sub>3</sub>	technically pure	●●●	●●	●●●	●●●	●●●
Amyl alcohol	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> -CH <sub>2</sub> -OH	technically pure	●●●	●●●	○	●●●	●●●
Aniline	C <sub>6</sub> H <sub>5</sub> -NH <sub>2</sub>	technically pure	●●	●●	○	●●	●●

Medium	Chemical formula	Concentration	Resistance				
			Grilon	Grilamid	Grilamid TR	Grivory GV	Grivory HTV
Anisole	$C_6H_5-O-CH_3$	technically pure	●●●	●●●	●●●	●●●	●●●
Aqua regia	$HNO_3 + HCl$	technically pure	○	○	○	○	○
Aspirin	—	technically pure	●●●	●●●	●●●	●●●	●●●
Attar of roses (Rose oil)	—	technically pure	●●●	●●●	●	●●●	●●●
Barium salts	—	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Battery acid	$H_2SO_4$	36 % aq. soln.	●	●●	●●	●	●
Beer	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Benzaldehyde	$C_6H_5CHO$	technically pure	●	●●	●	●	●
Benzoic acid	$C_6H_5-COOH$	*, aq. soln.	●●	●●	●●	●●	●●
Benzene	$C_6H_6$	technically pure	●●●	●●●	●●●	●●●	●●●
Benzyl alcohol	$C_6H_5-CH_2OH$	technically pure	●	●	●	●	●
Bitumen	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Borax	$Na_2B_4O_7$	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Boric acid	$H_3BO_3$	10 % aq. soln.	●●	●●●	●●	●●	●●
Brake fluid (DOT 4)	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Brandy	—	commercial grade	●●●	●●●	●●	●●●	●●●
Bromine	$Br_2$	*	●	●	○	●	●
Butane	$C_4H_{10}$	technically pure	●●●	●●●	●●●	●●●	●●●
Butanol	$C_4H_9OH$	technically pure	●●●	●●●	○	●●	●●●
Butter	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Butter milk	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Butyl acetate	$CH_3COOCH_2CH_2CH_2CH_3$	technically pure	●●●	●●●	●●●	●●●	●●●
Butyric acid	$CH_3CH_2CH_2-COOH$	technically pure	●●	●●●	●●	●●	●●
Butylene glycol	$HO-CH_2CH_2CH_2CH_2-OH$	technically pure	●●	●●●	○	●●	●●
Calcium chloride	$CaCl_2$	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Calcium chloride	$CaCl_2$	20 % alcoholic soln.	○	●	○	●	●
Camphor	—	technically pure	●●●	●●●	●●●	●●●	●●●
Carbon disulphide	$CS_2$	100 %	●●●	●●●	●●●	●●●	●●●
Carbon tetrachloride	$CCl_4$	technically pure	●●●	●●	●●●	●●●	●●●
Caustic soda	$NaOH$	40 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Chlorinated lime	$Ca(ClO)_2$	*, aq. soln.	○	○	○	○	○
Chlorine	$Cl_2$	technically pure	○	○	○	○	○
Chlorine gas	$Cl_2$	< 5 %, gaseous	●	●●	●	●●	●●
Chlorine water	—	< 5 %, aq. soln.	●	●●	●	●●	●●
Chloroacetic acid	$ClCH_2COOH$	10 %, technically pure	○	○	○	○	○
Chlorobenzene	$C_6H_5-Cl$	technically pure	●●●	●	●●	●●●	●●●
Chlorobrommethane	$CH_2ClBr$	technically pure	●●	●●	●	●●	●●
Chloroform	$CHCl_3$	technically pure	●	●	●	●	●
Chromic acid	$H_2CrO_4$	10 % aq. soln.	○	●	●	○	○
Chromic acid	$H_2CrO_4$	1 % aq. soln.	●	●●	●	●	●
Chromic/sulphuric acid	$H_2SO_4/CrO_3$	*, aq. soln.	○	○	○	○	○
Chromium salts	—	*, aq. soln.	●●●	●●●	●●	●●●	●●●
Coca-Cola	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Cocoa	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Coffee	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Copper salts	—	10 % aq. soln.	●●●	●●●	●●	●●●	●●●
Cresol	$H_3C-C_6H_4-OH$	technically pure	○	○	○	○	○

Medium	Chemical formula	Concentration	Resistance				
			Grilon	Grilamid	Grilamid TR	Grivory GV	Grivory HTV
Cyclohexane	C <sub>6</sub> H <sub>12</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Cyclohexanol	C <sub>6</sub> H <sub>11</sub> OH	technically pure	●●●●	●●●●	●	●●●●	●●●●
Cyclohexanone	C <sub>6</sub> H <sub>10</sub> O	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Decalin	C <sub>10</sub> H <sub>18</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Dibutyl phthalate	C <sub>6</sub> H <sub>4</sub> -(COOC <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Diesel	—	commercial grade	●●●●	●●●●	●●●●	●●●●	●●●●
Diesel oil	—	commercial grade	●●●●	●●●●	●●●●	●●●●	●●●●
Diethyl ether	CH <sub>3</sub> -CH <sub>2</sub> -O-CH <sub>2</sub> -CH <sub>3</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Dimethyl formamide	HCON-(CH <sub>3</sub> ) <sub>2</sub>	technically pure	●●●●	●●	○	●●	●●●●
Diocetyl phthalate	C <sub>6</sub> H <sub>4</sub> -(COOC <sub>8</sub> H <sub>17</sub> ) <sub>2</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Dioxane	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	technically pure	●●●●	●●●●	●●	●●●●	●●●●
Edible fats and oils	—	commercial grade	●●●●	●●●●	●●●●	●●●●	●●●●
Ethanol	CH <sub>3</sub> CH <sub>2</sub> OH	technically pure	●●●●	●●●●	○	●●●●	●●●●
Ether	CH <sub>3</sub> CH <sub>2</sub> -O-CH <sub>2</sub> CH <sub>3</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Ethyl acetate	CH <sub>3</sub> COOCH <sub>2</sub> CH <sub>3</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Ethylene chloride	ClCH <sub>2</sub> -CH <sub>2</sub> Cl	technically pure	●●●●	●●	●	●●	●●●●
FAM B	—	technically pure	●●●●	●●	○	●●	●●●●
Formaldehyde (Formalin)	HCHO	40 % aq. soln.	●	●●	●●	●	●●
Formamide	HCONH <sub>2</sub>	technically pure	●●	●●	●●	●●	●●
Formic acid	HCOOH	10 % aq. soln.	●	●	●●	●	●●
Formic acid	HCOOH	40 % aq. soln.	○	●	●	●	●
Formic acid	HCOOH	85 % aq. soln.	○	●	○	○	○
Freon	partially halogenized	commercial grade	●	●	●	●	●
	fully halogenized	commercial grade	●●●●	●●●●	●●●●	●●●●	●●●●
Freon 12	CF <sub>2</sub> Cl <sub>2</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Freon 22	CHF <sub>2</sub> Cl	technically pure	●	●	●	●	●
Fruit juices	—	commercial grade	●●●●	●●●●	●●●●	●●●●	●●●●
Fuel C	free from lead	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Fuel oil	—	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Furfural	C <sub>4</sub> H <sub>3</sub> O-CHO	technically pure	●●	●●	●●	●●	●●
Glycerine	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Glycol	HO-CH <sub>2</sub> CH <sub>2</sub> -OH	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Heptane	C <sub>7</sub> H <sub>16</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Hexane	C <sub>6</sub> H <sub>14</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●
Hydraulic fluid	—	commercial grade	●●●●	●●●●	●●●●	●●●●	●●●●
Hydrochloric acid	HCl	10 % aq. soln.	○	●	●●	○	○
Hydrochloric acid	HCl	1 % aq. soln.	●	●●	●●●●	●	●
Hydrogen fluoride	HF	40 % aq. soln.	○	○	○	○	○
Hydrogen peroxide	H <sub>2</sub> O <sub>2</sub>	30 % aq. soln.	○	○	○	○	○
Hydrogen peroxide	H <sub>2</sub> O <sub>2</sub>	10 % aq. soln.	●	●●	●●	●	●
Hydrogen peroxide	H <sub>2</sub> O <sub>2</sub>	2 % aq. soln.	●	●●	●●	●	●●
Hydrogen sulphide	H <sub>2</sub> S	< 5 %, gaseous	●●●●	●●●●	●●●●	●●●●	●●●●
Ink	—	commercial grade	●●●●	●●●●	●●●●	●●●●	●●●●
Iodine tincture	I <sub>2</sub>	*, alcoholic soln.	○	○	○	○	○
Iron salts	—	20 % aq. soln. neut.	●●●●	●●●●	●●	●●●●	●●●●
Iron salts	—	20 % aq. soln. acid.	○	●	●	●	●
Isooctane	(CH <sub>3</sub> ) <sub>3</sub> C-CH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	technically pure	●●●●	●●●●	●●●●	●●●●	●●●●

Medium	Chemical formula	Concentration	Resistance				
			Grilon	Grilamid	Grilamid TR	Grivory GV	Grivory HTV
Isopropyl alcohol	$(\text{CH}_3)_3\text{-CHOH}$	technically pure	●●●	●●	○	●●	●●●
Lactic acid	$\text{CH}_3\text{CH}(\text{OH})\text{-COOH}$	90 % aq. soln.	○	●●	●	○	○
Lactic acid	$\text{CH}_3\text{CH}(\text{OH})\text{-COOH}$	50 % aq. soln.	●	●●	●●	●	●
Lactic acid	$\text{CH}_3\text{CH}(\text{OH})\text{-COOH}$	5 % aq. soln.	●●	●●●	●●●	●●	●●
Lanolin	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Lead salts	—	technically pure	●●●	●●●	●●●	●●●	●●●
Lemon juice	—	*, commercial grade	●●	●●	●●●	●●	●●
Linseed oil	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Liqueurs	—	commercial grade	●●●	●●●	●●	●●●	●●●
Lubrications oils, greases, soaps	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Magnesium hydroxide	$\text{Mg}(\text{OH})_2$	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Magnesium salts	—	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Mercury	Hg	technically pure	●●●	●●●	●●●	●●●	●●●
Mercury salts	—	*, aq. soln., neutral	●●●	●●●	●●	●●●	●●●
Methanol	$\text{CH}_3\text{OH}$	technically pure	●●●	●●	○	●●	●●●
Methylene chloride	$\text{CH}_2\text{Cl}_2$	technically pure	●●	●	●	●●	●●
Methylethyl ketone	$\text{CH}_3\text{-CO-CH}_2\text{-CH}_3$	technically pure	●●●	●●●	●	●●●	●●●
Milk	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Mineral oils	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Motor fuels	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Naphthalene	$\text{C}_{10}\text{H}_8$	technically pure	●●●	●●●	●●●	●●●	●●●
Nickel salts	—	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Nitric acid	$\text{HNO}_3$	*, aq. soln.	○	○	●	○	○
Nitrobenzene	$\text{C}_6\text{H}_5\text{NO}_2$	technically pure	●●	●●	●●	●●	●●
Nitromethane	$\text{CH}_3\text{NO}_2$	technically pure	●●●	●●●	●●●	●●●	●●●
Octane	$\text{C}_8\text{H}_{18}$	technically pure	●●●	●●●	●●●	●●●	●●●
Oil (No. 3 ASTM)	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Oil of lavender	—	commercial grade	●●●	●●●	●	●●●	●●●
Oil of pine needle	—	technically pure	●●●	●●●	●●●	●●●	●●●
Oil of turpentine	—	technically pure	●●●	●●●	●●●	●●●	●●●
Oleic acid	—	technically pure	●●●	●●●	●●●	●●●	●●●
Oleum	$\text{H}_2\text{SO}_4 + \text{SO}_3$	technically pure	○	○	○	○	○
Olive oil	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Oxalic acid	$\text{HOOC-COOH}$	10 % aq. soln.	●●	●●●	●●●	●●	●●
Ozone	$\text{O}_3$	*, gaseous	●	●	●	●	●
Ozone	$\text{O}_3$	< 1 ppm, gaseous	●●●	●●●	●●●	●●●	●●●
Paraffin oil	—	technically pure	●●●	●●●	●●●	●●●	●●●
Peanut oil	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Peppermint oil	—	technically pure	●●	●●	●●	●●	●●
Perchlorethylene	$\text{Cl}_2\text{C=CCl}_2$	technically pure	●●●	●●●	●●●	●●●	●●●
Petrol (unleaded, Esso)	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Petroleum	—	technically pure	●●●	●●●	●●●	●●●	●●●
Petroleum ether	—	technically pure	●●●	●●●	●●●	●●●	●●●
Phenol	$\text{C}_6\text{H}_5\text{OH}$	*, aq. soln.	●	●	●	●	●
Phenylethyl alcohol	$\text{H}_3\text{C-CH}(\text{C}_6\text{H}_5)\text{-OH}$	technically pure	●●	●	●	●	●●
Phosphoric acid	$\text{H}_3\text{PO}_4$	50 % aq. soln.	●	●	●	●	●

Medium	Chemical formula	Concentration	Resistance				
			Grilon	Grilamid	Grilamid TR	Grivory GV	Grivory HTV
Phosphoric acid	H <sub>3</sub> PO <sub>4</sub>	10 % aq. soln.	●	●●	●●	●	●
Plasticizers (phthalates, phosphates)	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Potash	K <sub>2</sub> CO <sub>3</sub>	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Potassium bromide	KBr	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Potassium chlorate	KClO <sub>3</sub>	7 % aq. soln.	●	●●	●●	●	●
Potassium hydroxide	KOH	50 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Potassium iodide	KJ	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Potassium nitrate	KNO <sub>3</sub>	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Potassium permanganate	KMnO <sub>4</sub>	1 % aq. soln.	○	○	○	○	○
Potassium sulphate	K <sub>2</sub> SO <sub>4</sub>	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Propane	C <sub>3</sub> H <sub>8</sub>	technically pure	●●●	●●●	●●●	●●●	●●●
Propanol	C <sub>3</sub> H <sub>7</sub> OH	technically pure	●●●	●●	○	●●	●●●
Pyridine	C <sub>5</sub> H <sub>5</sub> N	technically pure	●●●	●●●	●●	●●●	●●●
Pyrocatechol	HO—C <sub>6</sub> H <sub>4</sub> —OH	6 % aq. soln.	●	●●	○	●	●
Resorcinol	HO—C <sub>6</sub> H <sub>4</sub> —OH	technically pure	○	○	○	○	○
Resorcinol	HO—C <sub>6</sub> H <sub>4</sub> —OH	*, alcoholic soln.	○	○	○	○	○
Rum	—	commercial grade	●●●	●●●	●●	●●●	●●●
Salicylic acid	HO—C <sub>6</sub> H <sub>4</sub> —COOH	technically pure	●●●	●●●	●●●	●●●	●●●
Silicone oils	—	technically pure	●●●	●●●	●●●	●●●	●●●
Silver salts	—	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Soap solution	—	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Sodium bicarbonate	NaHCO <sub>3</sub>	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Sodium bisulphite	NaHSO <sub>3</sub>	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Sodium bromide	NaBr	10 % aq. soln.	●●	●●●	●●●	●●	●●●
Sodium carbonate	Na <sub>2</sub> CO <sub>3</sub>	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Sodium chloride	NaCl	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Sodium chlorite	NaClO <sub>2</sub>	5 % aq. soln.	●	●	●	●	●
Sodium hydroxide	NaOH	40 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Sodium hypochlorite	NaOCl	5 % aq. soln.	●	●●	●	●	●
Sodium nitrate	NaNO <sub>3</sub>	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Sodium nitrite	NaNO <sub>2</sub>	5 % aq. soln.	●	●●	●	●	●
Sodium perborate	—	5 % aq. soln.	●●	●●●	●●	●●	●●
Sodium phosphate	Na <sub>3</sub> PO <sub>4</sub>	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Sodium sulphate	Na <sub>2</sub> SO <sub>4</sub>	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Sodium sulphide	Na <sub>2</sub> S	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Sodium sulphite	Na <sub>2</sub> SO <sub>3</sub>	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Sodium thiosulphite	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	10 % aq. soln.	●●●	●●●	●●●	●●●	●●●
Soya oil	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Starch	—	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Styrene	C <sub>6</sub> H <sub>5</sub> —CH=CH <sub>2</sub>	technically pure	●●●	●●●	●●●	●●●	●●●
Sugar	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Sulphur	S	technically pure	●●●	●●●	●●●	●●●	●●●
Sulphur dioxide	SO <sub>2</sub>	< 5 %	●	●●	●●	●	●●
Sulphuric acid	H <sub>2</sub> SO <sub>4</sub>	technically pure	○	●	●	○	○
Sulphuric acid	H <sub>2</sub> SO <sub>4</sub>	36 % aq. soln.	●	●●	●●	●	●
Sulphuric acid	H <sub>2</sub> SO <sub>4</sub>	10 % aq. soln.	●	●●	●●	●	●

Medium	Chemical formula	Concentration	Resistance				
			Grilon	Grilamid	Grilamid TR	Grivory GV	Grivory HTV
Sulphuric acid	H <sub>2</sub> SO <sub>4</sub>	2 % aq. soln.	●	●●	●●●	●	●
Table salt	NaCl	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Tallow	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Tar	—	technically pure	●●●	●●●	●●●	●●●	●●●
Tartaric acid	HOOC-CH(OH)-CH(OH)-COOH	technically pure	●●●	●●●	●●●	●●●	●●●
Tea	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Tetrahydrofuran	C <sub>4</sub> H <sub>8</sub> O	technically pure	●●●	●●●	●●	●●●	●●●
Tetralin	C <sub>10</sub> H <sub>12</sub>	technically pure	●●●	●●●	●●●	●●●	●●●
Thionyl chloride	SOCl <sub>2</sub>	technically pure	○	○	○	○	○
Toluene	C <sub>6</sub> H <sub>5</sub> -CH <sub>3</sub>	technically pure	●●●	●●●	●●●	●●●	●●●
Trichlorethylene	Cl <sub>2</sub> C=CHCl	technically pure	●●	●●	●●	●●	●●
Urea	H <sub>2</sub> N-CO-NH <sub>2</sub>	20 % aq. soln.	●●●	●●●	●●	●●●	●●●
Vaseline	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Vinegar	CH <sub>3</sub> COOH	commercial grade	●●	●●●	●●●	●●	●●
Water	H <sub>2</sub> O	technically pure	●●●	●●●	●●●	●●●	●●●
Water glass	—	*, aq. soln.	●●●	●●●	●●●	●●●	●●●
Wax	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Wine	—	commercial grade	●●●	●●●	●●●	●●●	●●●
Xylene	H <sub>3</sub> C-C <sub>6</sub> H <sub>4</sub> -CH <sub>3</sub>	technically pure	●●●	●●●	●●●	●●●	●●●
Zinc chloride	ZnCl <sub>2</sub>	10 % aq. soln.	●●	●●●	●●●	●●●	●●●

The recommendations and data given are based on our experience to date. No liability can be assumed in connection with their usage and processing.

Domat/Ems, June 2001