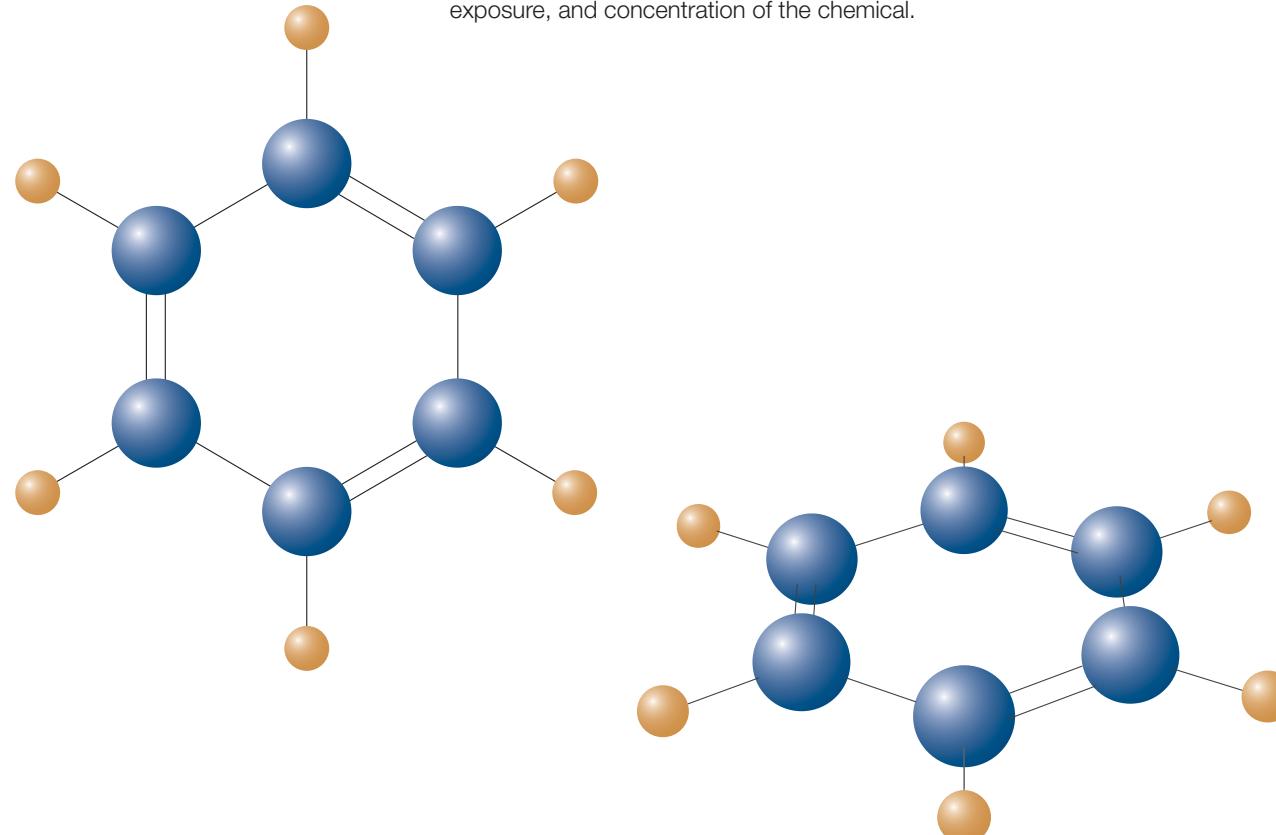


► Labware Chemical Resistance Table



Interpretation of Chemical Resistance

The Chemical Resistance Chart that follows is a general guide only. Because so many factors can affect the chemical resistance of a given product, you should test under your own conditions.

Effects of Chemicals on Plastics

Chemicals can affect the strength, flexibility, surface appearance, color, dimensions or weight of plastics. The basic modes of interaction which cause these changes are: (1) chemical attack on the polymer chain, with resultant reduction in physical properties, including oxidation; reaction of functional groups in or on the chain; and depolymerization; (2) physical change, including absorption of solvents, resulting in softening and swelling of the plastic; permeation of solvent through the plastic; dissolution in a solvent; and (3) stress cracking from the interaction of a "stress cracking agent" with internal or external stresses.

Mixing and/or dilution of certain chemicals can be potentially dangerous.

The reactive combination of different chemicals or compounds of two or more classes may cause an undesirable chemical effect or result in an increased temperature, which can affect chemical resistance (as temperature increases, resistance to attack decreases). Other factors affecting chemical resistance include pressure and internal or external stresses (e.g. centrifugation), length of exposure, and concentration of the chemical.

Environmental Stress Cracking

Environmental stress cracking is the failure of a plastic material in the presence of certain types of chemicals.

This failure is not a result of chemical attack. Simultaneous presence of three factors causes stress cracking: tensile stress, a stress cracking agent and the inherent susceptibility of the plastic to stress cracking.

Common stress cracking agents are detergents, surface active chemicals, lubricants, oils, ultra-pure water and plating additives such as brighteners and wetting agents. Relatively small concentrations of stress cracking agent may be sufficient to cause cracking.

Mixing and/or dilution of certain chemicals may result in reactions which produce heat, which can cause product failure.

Pre-test your specific usage and always follow correct lab safety procedures.

Caution: Do not store strong oxidizing agents in plastic labware except that made of Teflon® FEP or PFA. Prolonged exposure can cause the material to become brittle and fail.

While prolonged storage may not be intended at time of filling, a forgotten container will fail in time and result in leakage of contents. Do not place any plastic labware into a flame.

Resin Codes

| | |
|--------|---|
| ECTFE | Halar® ECTFE (ethylene-chlorotrifluoroethylene copolymer) |
| ETFE | Tefzel ETFE (ethylene-tetrafluoroethylene) |
| FEP | Teflon® FEP (fluorinated ethylene propylene) |
| HDPE | high-density polyethylene |
| FLPE | fluorinated polyethylene |
| LDPE | low-density polyethylene |
| PC | polycarbonate |
| PEI | polyetherimide |
| PET | polyethylene terephthalate |
| PETG | polyethylene terephthalate copolymer |
| PFA | Teflon® PFA (polyfluoroalkoxy) |
| PMMA | polymethyl methacrylate (acrylic) |
| PMP | polymethylpentene |
| PP | polypropylene |
| PPCO | polypropylene copolymer |
| PS | polystyrene |
| PSF | polysulfone |
| RESMER | RESMER manufacturing technology |
| SAN | styrene acrylonitrile |
| TFE | Teflon® TFE (tetrafluoroethylene) |
| TMX | Thermanox |
| PMX | Permanox |

Teflon® is a registered trademark of DuPont used under license by Nalge Nunc International Corporation

Halar® is a registered trademark of Solvay Solexis

PPCO has replaced polyallomer (PA) in all products

► **Labware Chemical Resistance Table**, continued

E No damage after 30 days of constant exposure.

F Some effect after 7 days of constant exposure.

G Little or no damage after 30 days of constant exposure.

N Immediate damage may occur. Not recommended for continuous use.

► Labware Chemical Resistance Table, continued

| Chemical, Concentration | | | Labware Olefin Polymers | | | | | | | | | | Labware Fluoropolymers | | | | | | | | | | Other Labware Polymers | | | | | | | | | | Specialty Materials | | | | | | | | | | |
|---------------------------------|-------------|-----------|-------------------------|-----------|------|----|-----|----|------|----|-----|----|------------------------|----|-----|----|----------|----|-----|----|--------------|----|------------------------|----|------|----|----|----|-----|----|----|----|---------------------|----|-----|----|-----|---|---------|--|--|--|--|
| | | | LDPE | | HDPE | | PPP | | PPCO | | PMP | | FLPE | | FEP | | TFE/PTFE | | PFA | | Halar® ECTFE | | Tefzel® ETFE | | PETG | | PC | | PSF | | PS | | PMMA | | SAN | | PEI | | RESMER™ | | | | |
| | | | CAS # | EC Number | M.W. | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | | | | | | |
| Ammonium Glycolate, pure | 999999-93-6 | | 93.08 | G | G | E | E | E | G | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | |
| Ammonium Oxalate, pure | 1113-38-8 | 214-202-3 | 124.10 | E | G | E | E | E | G | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | F | N | E | E | - | - | E | E | G | - | - | - | | | | | |
| Ammonium Salts, pure | N/A | | N/A | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | F | F | | | | | | | | |
| Amyl Alcohol, pure | 71-41-0 | 200-752-1 | 88.15 | E | E | E | E | E | G | E | E | G | F | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | | | |
| Amyl Chloride, pure | 543-59-9 | 208-846-4 | 106.60 | N | N | F | N | N | N | N | N | N | F | F | G | F | E | E | E | E | E | E | E | E | E | E | E | E | E | F | N | F | F | - | - | - | | | | | | | |
| Aniline, pure | 62-53-3 | 200-539-3 | 93.13 | E | G | G | F | E | G | G | F | G | F | G | F | E | E | E | E | E | E | E | E | E | E | E | E | E | E | F | N | G | F | E | - | G | - | | | | | | |
| Aqua Regia, pure | 8007-56-5 | | N/A | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | | | | | | | |
| Arsenic Acid, pure | 7778-39-4 | 231-901-9 | 141.94 | G | F | E | E | E | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | | | |
| Benzaldehyde, pure | 100-52-7 | 202-860-4 | 106.12 | E | G | G | N | E | G | E | G | E | G | E | F | E | E | E | E | E | E | E | E | E | E | E | F | N | E | G | E | - | E | - | | | | | | | | | |
| Benzenamine, pure | 62-53-3 | 200-539-3 | 93.13 | E | G | G | F | E | G | G | F | G | F | G | F | E | E | E | E | E | E | E | E | E | E | E | E | E | E | F | N | G | F | E | - | G | - | | | | | | |
| Benzene, pure | 71-43-2 | 200-753-7 | 78.11 | N | N | N | N | N | N | N | N | N | N | N | N | F | F | E | E | E | E | E | E | E | E | E | E | E | E | F | N | F | G | N | G | N | | | | | | | |
| Benzol, pure | 71-43-2 | 200-753-7 | 78.11 | N | N | N | N | N | N | N | N | N | N | N | N | N | F | F | E | E | E | E | E | E | E | E | E | E | F | N | F | F | G | N | G | N | | | | | | | |
| Benzyl Acetate, pure | 140-11-4 | 205-399-7 | 150.18 | E | G | E | E | E | G | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | N | E | G | - | - | - | | | | | | | | | |
| Benzyl Alcohol, pure | 100-51-6 | 202-859-9 | 108.14 | N | N | F | N | G | F | N | N | - | E | E | E | E | E | E | E | E | E | E | E | E | E | E | N | G | N | - | - | F | N | N | E | F | G | N | | | | | |
| Boric Acid, pure | 10043-35-3 | 233-139-2 | 61.83 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | | | |
| Bromine, pure | 7726-95-6 | 231-778-1 | 79.90 | N | N | F | N | N | N | N | N | N | N | N | N | F | N | E | E | E | E | E | E | E | E | E | E | E | N | G | G | N | N | N | N | N | N | | | | | | |
| Bromoform, pure | 75-25-2 | 200-854-6 | 252.73 | N | N | N | N | N | N | N | N | N | N | N | N | N | F | F | E | E | E | E | E | E | E | E | E | F | N | N | N | N | N | N | N | N | N | | | | | | |
| Butadiene, pure | 106-99-0 | 203-450-8 | 54.09 | N | N | F | N | N | N | N | N | N | N | N | N | G | F | E | E | E | E | E | E | E | E | E | E | E | E | G | F | N | N | - | - | - | | | | | | | |
| Butyl Acetate, pure | 123-86-4 | 204-658-1 | 116.16 | G | F | G | F | F | N | G | F | F | F | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | G | F | G | N | G | N | | | | | | | | | |
| Butyl Chloride, pure | 109-69-3 | 203-696-6 | 92.57 | N | N | N | N | N | N | N | N | N | N | N | N | F | F | E | E | E | E | E | E | E | E | E | E | E | F | N | F | N | - | - | - | | | | | | | | |
| Butyl Citrate, pure | 77-94-1 | 201-071-2 | 360.45 | G | F | E | G | G | F | G | F | G | F | E | E | E | E | E | E | E | E | E | E | E | E | E | G | F | - | - | G | F | - | - | - | | | | | | | | |
| Butyric Acid, pure | 107-92-6 | 203-532-3 | 88.11 | N | N | G | G | N | N | N | N | N | N | N | N | F | N | E | E | E | E | E | E | E | E | E | N | N | N | N | N | N | N | N | N | N | | | | | | | |
| Calcium Chloride, pure | 10043-52-4 | 233-140-8 | 110.98 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | | | |
| Calcium Hypochlorite, Saturated | 7778-54-3 | 231-908-7 | 142.98 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | G | N | N | N | N | N | N | N | | | | | | | |
| Carbazole, pure | 86-74-8 | 201-696-0 | 167.21 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | | | |
| Carbon Disulfide, pure | 75-15-0 | 200-843-6 | 76.14 | N | N | N | N | F | N | N | N | N | N | N | N | E | E | E | E | E | E | E | E | E | E | E | N | E | - | E | - | - | - | - | - | - | - | | | | | | |
| Carbon Tetrachloride, pure | 56-23-5 | 200-262-8 | 153.82 | F | N | G | F | G | F | N | N | N | N | N | N | E | | | | | | | | | | | | | | | | | | | | | | | | | | | |

► Labware Chemical Resistance Table, continued

| | | | | Labware Olefin Polymers | | | | | | | | Labware Fluoropolymers | | | | | | | | | | | | Specialty Materials | | | | | | | | | | | | | | | | | | | | | | |
|---|------------|-----------|--------|-------------------------|----|------|----|-----|----|------|----|------------------------|----|------|----|-----|----|----------|----|-----|----|--------------|----|---------------------|----|------|----|----|----|-----|----|----|----|------|----|-----|---|-----|---|---------|---|-----|---|-----|---|-----|
| | | | | LDPE | | HDPE | | PPP | | PPCO | | PMP | | FLPE | | FEP | | TFE/PTFE | | PFA | | Halar® ECTFE | | Tefzel® ETFE | | PETG | | PC | | PSF | | PS | | PMMA | | SAN | | PEI | | RESMER™ | | PMX | | TMX | | PET |
| Chemical, Concentration | CAS # | EC Number | M.W. | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | | | | | | | | | | | |
| Decalin, pure | 91-17-8 | 202-046-9 | 138.25 | G | F | E | G | N | N | G | F | F | N | E | E | E | E | E | E | E | E | E | - | - | E | N | E | N | N | N | N | E | E | - | - | F | N | F | N | - | - | - | - | | | |
| Diacetone Alcohol, pure | 123-42-2 | 204-626-7 | 116.16 | F | N | E | E | E | F | E | F | E | E | E | E | E | E | E | E | E | E | E | E | E | E | N | N | N | N | G | F | N | N | N | N | - | - | E | G | E | E | G | F | F | | |
| Diacetone, pure | 108-10-1 | 203-550-1 | 100.16 | G | F | N | N | G | F | G | F | F | F | F | F | F | F | F | F | F | F | F | F | F | F | N | N | N | N | N | N | N | N | N | N | - | - | F | N | F | F | E | G | F | | |
| Dibutyl Phthalate, pure | 84-74-2 | 201-557-4 | 278.34 | F | N | F | N | F | N | - | - | G | G | E | G | E | E | E | E | E | E | E | E | E | E | E | G | N | E | G | - | - | G | N | G | N | N | G | F | F | N | G | G | F | N | F |
| Diethyl Benzene, pure | 25340-17-4 | 246-874-9 | 134.22 | N | N | F | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | - | - | - | - | - | - | | | | | |
| Diethyl Ether, pure | 60-29-7 | 200-467-2 | 74.12 | N | N | F | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | | | | | |
| Diethyl Ketone, pure | 96-22-0 | 202-490-3 | 86.13 | G | F | N | N | G | G | G | G | G | F | F | F | F | E | E | E | E | E | E | E | E | E | E | G | F | G | F | F | E | E | E | - | - | N | N | G | F | E | - | E | | | |
| Diethyl Malonate, pure | 105-53-3 | 203-305-9 | 160.17 | E | E | E | E | E | E | E | E | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | |
| Diethylamine, pure | 109-89-7 | 203-716-3 | 73.14 | N | N | F | N | G | N | G | N | F | F | N | N | E | E | E | E | E | E | E | E | E | E | E | E | N | E | G | G | - | - | - | E | - | E | G | F | F | - | - | - | - | | |
| Diethylene Dioxide, pure | 123-91-1 | 204-661-8 | 88.11 | G | F | G | G | F | N | G | F | F | N | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | F | N | E | F | E | N | E | E | F | E | N | E | N | | | | | |
| Diethylene Glycol Monoethyl Ether, pure | 111-90-0 | 203-919-7 | 134.18 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | |
| Diethylene Glycol, pure | 111-46-6 | 203-872-2 | 106.12 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | |
| Diisopropyl Ether, pure | 108-20-3 | 203-560-6 | 102.18 | N | N | F | N | N | N | N | N | N | N | N | N | N | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | | |
| Dimethyl Acetamide, pure | 127-19-5 | 204-826-4 | 87.12 | F | N | E | E | E | E | E | E | G | F | G | G | E | E | E | E | E | E | E | E | E | E | E | E | G | E | G | F | E | N | G | N | N | N | N | N | N | | | | | | |
| Dimethyl Formamide, pure | 68-12-2 | 200-679-5 | 73.09 | E | E | E | E | E | E | E | E | E | G | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | N | N | N | N | N | N | N | N | N | N | N | N | | | | | | |
| Dimethyl Ketone, pure | 67-64-1 | 200-662-2 | 58.08 | G | N | N | N | F | N | N | N | E | E | F | F | E | E | E | E | E | E | E | E | E | E | E | E | G | G | N | N | N | N | F | N | F | N | F | N | F | | | | | | |
| Dimethylsulfoxide, pure | 67-68-5 | 200-664-3 | 78.14 | N | N | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | E | E | E | N | E | N | E | N | E | N | | | | | | |
| Dioxane, pure | 123-91-1 | 204-661-8 | 88.11 | G | F | G | G | F | N | G | F | F | N | E | E | E | E | E | E | E | E | E | E | E | E | E | E | F | N | F | N | E | F | E | N | E | F | N | E | N | | | | | | |
| DIPE, pure | 108-20-3 | 203-560-6 | 102.18 | N | N | F | N | N | N | N | N | N | N | N | N | N | E | G | E | E | E | E | E | E | E | E | E | E | G | F | - | - | - | - | G | F | - | - | - | - | | | | | | |
| Dipropylene Glycol, pure | 25265-71-8 | 246-770-3 | 134.17 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | |
| DMSO, pure | 67-68-5 | 200-664-3 | 78.14 | N | N | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | |
| Ether, pure | 60-29-7 | 200-467-2 | 74.12 | N | N | F | N | N | N | N | N | N | F | N | G | F | E | E | E | E | E | E | E | E | E | E | E | E | G | E | G | E | N | E | N | E | N | E | N | E | N | | | | | |
| Ethyl Acetate, pure | 141-78-6 | 205-500-4 | 88.11 | E | E | E | E | E | G | G | F | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | G | E | E | F | E | F | E | E | F | E | E | F | | | | | |
| Ethyl Alcohol, pure | 64-17-5 | 200-578-6 | 46.07 | E | G | E | E | E | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

► Labware Chemical Resistance Table, continued

| | | | | Labware Olefin Polymers | | | | | | | | | | Labware Fluoropolymers | | | | | | | | | | | | | | Specialty Materials | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------|-----------|--------|-------------------------|----|------|----|-----|----|------|----|-----|----|------------------------|----|-----|----|----------|----|-----|----|--------------|----|--------------|----|------|----|---------------------|----|-----|----|----|----|------|----|-----|----|-----|---|---------|---|-----|--|-----|--|-----|--|
| | | | | LDPE | | HDPE | | PPP | | PPCO | | PMP | | FLPE | | FEP | | TFE/PTFE | | PFA | | Halar® ECTFE | | Tefzel® ETFE | | PETG | | PC | | PSF | | PS | | PMMA | | SAN | | PEI | | RESMER™ | | PMX | | TMX | | PET | |
| | | | | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | | | | | | | | | | |
| Freon TF, pure | 76-13-1 | 200-936-1 | 187.38 | E | G | E | G | E | G | F | N | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | N | F | N | F | N | E | - | F | N | F | E | G | | | | | | | | |
| Fuel Oil No. 1, pure | 8008-20-6 | 232-366-4 | N/A | F | N | G | F | E | F | G | G | F | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | F | N | E | G | - | G | F | E | G | | | | | | | | | |
| Gasoline, pure | 8006-61-9 | 232-349-1 | N/A | N | N | G | G | F | N | G | F | F | N | E | G | E | E | E | E | E | E | E | E | E | E | E | F | N | F | N | N | F | N | G | F | N | E | G | | | | | | | | | |
| Glutaraldehyde Disinfectant, pure | N/A | N/A | E | G | E | E | E | E | E | F | F | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | G | E | F | F | E | - | E | - | | | | | | | | | | | | |
| Glutaraldehyde, pure | 111-30-8 | 203-856-5 | 100.12 | E | G | E | E | E | E | E | F | F | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | G | N | E | F | E | G | F | F | E | - | E | - | | | | | | | | |
| Glycerine, pure | 56-81-5 | 200-289-5 | 92.09 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | E | E | F | E | F | | | | | | | | | |
| Glycerol, pure | 56-81-5 | 200-289-5 | 92.09 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | E | E | E | F | E | F | | | | | | | | |
| Hexane, pure | 110-54-3 | 203-777-6 | 86.18 | N | N | G | F | G | F | G | F | F | N | E | G | E | E | E | E | E | E | E | E | E | E | E | G | N | N | E | - | E | E | F | G | F | N | E | - | E | - | | | | | | |
| Hydrated Alumina, pure | 21645-51-2 | 244-492-7 | 78.00 | E | G | E | E | G | E | E | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | F | N | G | G | E | E | G | G | - | E | E | G | E | E | E | | | | | |
| Hydrazine, pure | 302-01-2 | 206-114-9 | 32.05 | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | | | | | | | |
| Iodine Crystals, pure | 7553-56-2 | 231-442-4 | 126.90 | N | N | N | N | G | F | F | N | G | N | N | N | N | E | E | E | E | E | E | E | E | E | E | G | F | G | N | N | N | N | F | N | E | G | N | - | - | - | | | | | | |
| Isobutanol, pure | 78-83-1 | 201-148-0 | 74.12 | E | E | E | E | E | E | E | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | F | N | E | G | G | N | N | G | N | E | E | G | E | N | E | N | | | | | |
| iso-Butyl Alcohol, pure | 78-83-1 | 201-148-0 | 74.12 | E | E | E | E | E | E | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | F | N | E | G | G | N | N | G | N | E | E | G | E | N | E | N | | | | | |
| Isopropanol, pure | 67-63-0 | 200-661-7 | 60.10 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | F | N | G | F | E | E | E | E | E | E | E | F | E | N | | | | | | | |
| Isopropyl Acetate, pure | 108-21-4 | 203-561-1 | 102.13 | G | F | E | G | G | F | G | F | G | F | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | - | N | N | N | N | N | N | N | N | G | F | - | - | - | | | | | |
| Isopropyl Alcohol, pure | 67-63-0 | 200-661-7 | 60.10 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | F | N | G | F | E | E | E | E | E | E | F | E | N | | | | | | | | |
| Isopropyl Benzene, pure | 98-82-8 | 202-704-5 | 120.19 | F | N | F | N | F | N | F | N | N | N | G | F | E | E | E | E | E | E | E | E | E | E | E | G | E | N | N | N | N | N | N | N | N | N | N | N | N | | | | | | | |
| Isopropyl Ether, pure | 108-20-3 | 203-560-6 | 102.18 | N | N | F | N | N | N | N | N | N | N | E | G | E | E | E | E | E | E | E | E | E | E | E | G | E | - | N | N | N | N | N | N | N | N | N | N | N | N | | | | | | |
| Jet Fuel, pure | 94114-58-6 | 302-694-3 | N/A | F | N | F | N | F | N | F | N | F | N | E | G | E | E | E | E | E | E | E | E | E | E | G | G | N | G | F | N | N | - | - | E | - | G | F | N | E | G | | | | | | |
| Kerosene, pure | 8008-20-6 | 232-366-4 | N/A | F | N | G | F | E | F | E | G | G | F | E | G | E | E | E | E | E | E | E | E | E | E | G | E | F | N | E | G | F | E | G | E | G | E | G | | | | | | | | | |
| Lacquer Thinner, pure | N/A | N/A | N | N | F | N | G | N | F | N | G | F | E | G | E | E | E | E | E | E | E | E | E | E | E | N | N | N | N | N | N | N | N | N | N | N | N | N | | | | | | | | | |
| L-alpha-amino Propionic Acid, pure | 56-41-7 | 200-273-8 | 89.09 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | | | | |
| Lead Acetate, pure | 301-04-2 | 206-104-4 | 325.29 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | E | E | E | E | E | E | E | E | E | E | E | | | | | | | | |
| L-Tartaric Acid, pure | 87-69-4 | 201-766-0 | 150.09 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | E | E | E | E | E | E | G | E | E | E | E | | | | | | | | |
| Magnesium Chloride, pure | 7786-30-3 | 232-094-6 | 95.21 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | | | |
| MEK, pure | 78-93-3 | 201-159-0 | 72.11 | N | N | F | N | G | F | E | G | F | N | E | G | E | E | E | E | E | G | - | E | G | E | G | F | N | E | N | E | G | E | G | N | F | N | E | G | | | | | | | | |
| Mercuric Chloride, pure | 7487-94-7 | 231-299-8 | 271.50 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | E | E | E | E | G | E | E | E | E | E | E | E | E | E | E | E | E | E | | | | | | | | |
| Methoxyethyl Oleate, pure | 111-10-4 | 203-834-5 | 340.54 | E | G | E | E | E | G | E | G | E | E | E | E | E | E | E | E | E | G | - | F | N | F | N | N | F | N | - | - | - | E | G | - | - | - | | | | | | | | | | |
| Methyl Acetate, pure | 79-20-9 | 201-185-2 | 74.08 | F | N | F | F | G | F | G | F | E | E | G | E | E | E | E | E | E | E | E | E | E | E | G | E | N | N | N | N | N | N | N | N | N | N | N | N | | | | | | | | |
| Methyl Alcohol, pure | 67-56-1 | 200-659-6 | 32.04 | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | G | N | F | E | G | F | F | N | N | N | E | G | E | E | N | | | | | | | |
| Methyl Ethyl Ketone, pure | 78-93-3 | 201-159-0 | 72.11 | G | F | F | N | G | F | E | G | F | N | E | G | E | E | E | E | E | G | - | N | N | N | N | N | N | N | N | N | N | N | G | N | F | N | E | G | | | | | | | | |
| Methyl Isobutyl Ketone, pure | 108-10-1 | 203-550-1 | 100.16 | G | F | F | N | G | F | G | F | F | F | F | F | E | E | E | E | E | G | - | E | E | G | E | G | N | N | N | N | N | N | N | N | N | N | N | N | | | | | | | | |
| Methyl Propyl Ketone, pure | 107-87-9 | 203-528-1 | 86.13 | G | F | N | N | G | F | G | F | F | F | G | F | E | E | E | E | E | G | - | F | N | F | N | N | N | N | N | N | N | N | N | F | N | F | E | - | E | - | | | | | | |
| Methylene Chloride, pure | 75-09-2 | 200-838-9 | 84.93 | N | N | F | N | F | N | F | N | G | F | E | E | E | E | E | E | E | G | - | F | F | N | N | N | N | N | N | N | N | N | N | N | F | N | N | N | N | | | | | | | |
| Methyloxirane, pure | 75-56-9 | 200-879-2 | 74.12 | F | F | G | F | F | N | F | F | F | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

E No damage after 30 days of constant exposure.

F Some effect after 7 days of constant exposure.

G Little or no damage after 30 days of constant exposure.

N Immediate damage may occur. Not recommended for continuous use.

► **Labware Chemical Resistance Table**, continued

E No damage after 30 days of constant exposure.

F Some effect after 7 days of constant exposure.

G Little or no damage after 30 days of constant exposure.

N Immediate damage may occur. Not recommended for continuous use.

► Labware Chemical Resistance Table, continued

E No damage after 30 days of constant exposure.

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