



# MARCH PUMPS

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## CHEMICAL RESISTANCE GUIDE

This chemical guide serves as a starting point for pump selection. The information found in this guide should be used as only a recommendation, not as a guarantee. March has done its best to compile the information and to determine its accuracy, but March does not warrant that the information located below is accurate or complete. It is recommended a pump should be tested under working conditions to determine the suitability of the pump for specific applications whenever possible. All chemicals listed have been evaluated at 68°F. To review an application, contact March Manufacturing. March Manufacturing does not warranty applications under any circumstances.

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\*\*A-Recommended \*\*B-Questionable \*\*C-Not Recommended

| Chemical Solution       | FORMULA   |      |      | Plastics |               |               |                 |       | Metals        |               | "O" Rings |          |        | Bushings       |        |         |                  |                     |
|-------------------------|---|------|------|----------|---------------|---------------|-----------------|-------|---------------|---------------|-----------|----------|--------|----------------|--------|---------|------------------|---------------------|
|                         |   |      |      | Ryton    | Polypropylene | Kynar (Glass) | Kynar (Natural) | Nylon | Hastelloy "C" | Stainless 316 | Viton     | Buna "N" | Teflon | Ceramic Magnet | Carbon | Ceramic | Mica Fill Teflon | Ryton Teflon Carbon |
| Acetic Acid (Glacial)   | CH <sub>3</sub> COOH  | 97   |      | A        | A             | A             | A               | C     | A             | A             | C         | C        | A      | A              | A      | A       | A                | A                   |
| Acetic Acid             | CH <sub>3</sub> COOH  | 50   | 1.05 | A        | A             | A             | A               | C     | A             | A             | A         | C        | A      | A              | A      | A       | A                |                     |
| Acetic Anhydride        | (CH <sub>3</sub> CO) <sub>2</sub> O                           | 100  | 1.08 | A        | A             | C             | C               | C     | A             | A             | C         | C        | A      |                | A      | A       | A                |                     |
| Acetone                 | CH <sub>3</sub> COCH <sub>3</sub>                             | 100  | 0.80 | A        | A             | C             | C               | A     | A             | A             | C         | C        | A      | A              | A      | A       | A                |                     |
| Acetophenone            | C <sub>6</sub> H <sub>5</sub> COCH <sub>3</sub>               | 100  | 1.03 | A        | B             | C             | C               | B     | A             | A             | C         | C        | A      |                | A      | A       | A                |                     |
| Acetyl Chloride         | CH <sub>3</sub> COCl  | 100  | 1.10 | A        | B             | A             | A               | C     |               | A             | A         | C        | A      |                | A      |         | A                |                     |
| Aluminum Chloride       | AlCl <sub>3</sub>   |      | 2.44 | A        | A             | A             | A               | C     | A             | B             | A         | A        | A      | B              | A      | A       | A                |                     |
| Aluminum Fluoride       | AlF <sub>3</sub>  |      | 2.88 |          | A             | A             | A               | C     | A             | B             | A         | A        | A      | B              | A      | A       |                  |                     |
| Aluminum Sulfate (Alum) | Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>               |      | 2.70 | A        | A             | A             | A               | A     | A             | A             | A         | A        | A      | B              | A      | A       | A                |                     |
| Ammonia (Aqueous)       | NH <sub>4</sub> OH  | 10   |      | A        | A             | C             | C               |       | A             | A             | B         | B        | A      | A              | A      | A       | A                |                     |
| Ammonium Carbonate      | (NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub>               | SAT. |      |          | A             | A             | A               | A     | A             | B             | A         | C        | A      | A              | A      | A       | A                |                     |
| Ammonium Chloride       | NH <sub>4</sub> Cl  | SAT. | 1.50 | A        | A             | A             | A               | A     | A             | B             | A         | A        | A      | A              | A      | A       | A                |                     |
| Ammonium Fluoride       | NH <sub>4</sub> F   | 20   | 1.30 | C        | A             | A             | A               |       | A             | C             | C         | C        | A      |                | A      | A       | C                |                     |
| Ammonium Hydroxide      | NH <sub>4</sub> OH  | 10   |      | A        | A             | A             | A               | A     | A             | A             | B         | C        | A      | A              | A      | A       | A                |                     |
| Ammonium Nitrate        | NH <sub>4</sub> NO <sub>3</sub>                               | SAT. | 1.70 | A        | A             | A             | A               | C     | A             | A             | C         | A        | A      |                | A      | A       | A                |                     |
| Ammonium Persulfate     | (NH <sub>4</sub> ) <sub>2</sub> S <sub>2</sub> O <sub>8</sub> | SAT. | 2.00 |          | A             | C             | C               | C     | A             | A             | A         | A        | A      | A              | A      | A       |                  |                     |

# Chemical Solution

% Concentration  
Specific Gravity @ 100%  
Concentration

Ryton

Polypropylene

Kynar (Glass)

Kynar (Natural)

Nylon

Hastelloy "C"

Stainless 316

Viton

Buna "N"

Teflon

Ceramic Magnet

Carbon

Ceramic

Mica Fill Teflon

Ryton Teflon Carbon

| FORMULA                  |  | Plastics |      |   |   |   |   |   | Metals |   | "O" Rings |   |   | Bushings |   |   |   |   |
|--------------------------|--|----------|------|---|---|---|---|---|--------|---|-----------|---|---|----------|---|---|---|---|
| Ammonium Sulfate         | (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>                    | SAT.     | 1.80 | A | A | A | A | C | A      | B | C         | A | A | A        | A | A | A | A |
| Ammonium Sulfide         | (NH <sub>4</sub> ) <sub>2</sub> S                                  | SAT.     |      |   | A | A | A |   | A      | A | C         | A | A |          | A | A |   |   |
| Ammonium Thiocyanate     | NH <sub>4</sub> SCN  | SAT.     | 1.30 |   | A | A | A |   | A      | A | A         | A | A |          | A | A |   |   |
| Amyl Acetate             | CH <sub>3</sub> CO <sub>2</sub> C <sub>5</sub> H <sub>11</sub>     | 100      | 0.86 | A | C | A | A | B | A      | A | C         | C | A |          | A | A | A | A |
| Amyl Alcohol             | C <sub>5</sub> H <sub>11</sub> OH                                  | 100      | 0.80 | A | A | A | A | A | A      | A | C         | A | A |          | A | A | A | A |
| Amyl Chloride            | CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> CH <sub>2</sub> Cl | 100      | 0.80 | A | C | A | A | C | A      | A | B         | C | A |          | A | A |   |   |
| Aniline                  | C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub>                      | 100      | 1.02 | A | A | A | A | C | A      | A | C         | C | A |          | A | A | A | A |
| Aqua Regia               |  |          |      | C | C | C | C | C | C      | C | B         | C | A | C        | C | B |   | C |
| Barium Carbonate         | BaCO <sub>3</sub>  | SAT.     | 4.30 | A | A | A | A | A | A      | A | A         | A | A | A        | A | A |   | A |
| Barium Chloride          | BaCl <sub>2</sub>  | SAT.     | 3.10 | A | A | A | A | A | A      | A | A         | A | A |          | A | A | A | A |
| Barium Hydroxide         | Ba(OH) <sub>2</sub>  |          | 2.20 | A | A | A | A | A | A      | A | A         | A | A | A        | A | A |   | A |
| Barium Sulfate           | BaSO <sub>4</sub>  | SAT.     | 4.40 | A | A | A | A | A | A      | A | A         | A | A |          | A | A |   | A |
| Barium Sulfide           | BaS  | SAT.     | 4.30 | A | A | A | A | A | B      | B | A         | A | A |          | A | A |   | A |
| Beer                     |  |          |      |   | A | A | A | B | A      | A | A         | A | A | A        | A | A |   |   |
| Benzaldehyde             | C <sub>6</sub> H <sub>5</sub> CHO                                  | 100      | 1.05 | C | A | C | C | C | A      | A | C         | C | A |          | A | A | A | C |
| Benzene                  | C <sub>6</sub> H <sub>6</sub>                                      | 100      | 0.90 | B | C | A | A | A | A      | A | A         | C | A | A        | A | A | A | B |
| Benzene Sulfonic Acid    | C <sub>6</sub> H <sub>5</sub> SO <sub>3</sub> H                    | 100      |      | A | B | A | A | C | A      | A | A         | C | A |          | A | A | A | A |
| Benzoic Acid             | C <sub>6</sub> H <sub>5</sub> COOH                                 |          | 1.30 | A | A | A | A | C | A      | A | A         | C | A |          | A | A | A |   |
| Benzyl Alcohol           | C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> OH                   | 100      | 1.05 | A | A | A | A |   |        | A | A         | C |   |          | A | A | A | A |
| Benzyl Chloride          | C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> Cl                   |          | 1.10 | A | A | A | A |   |        | A | B         | C |   |          |   |   |   |   |
| Bismuth Carbonate        | (BiO) <sub>2</sub> CO <sub>3</sub>                                 | SAT.     | 6.80 |   | A | A | A |   |        |   |           | C | A |          | A | A |   |   |
| Boric Acid               | H <sub>3</sub> BO <sub>3</sub>                                     |          | 1.40 |   | A | A | A | B | A      | A | A         | A | A |          | A | A | A |   |
| Brine                    |  | SAT.     |      | A | A | A | A |   | A      |   | A         | A | A | A        | A | A |   | A |
| Bromine Liquid           | Br   | 100      | 3.10 | C | C | B | B | C | A      | C | B         | C | A | A        | A | A |   | C |
| Butane                   | CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>    |          | 0.80 | A | A | A | A | A | A      | A | A         |   | A |          | A |   |   | A |
| Butyl Acetate            | CH <sub>3</sub> COO(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub> |          | 0.90 | A | C | C | C |   | A      | A | C         | C | A |          | A | A | A | A |
| Butyl Alcohol            | CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>2</sub> OH |          | 0.90 | A | A | A | A | A | A      | A | B         | A | A |          | A | A |   | A |
| Butyl Ether              | C <sub>4</sub> H <sub>9</sub> OC <sub>4</sub> H <sub>9</sub>       |          |      | A | C | B | B |   |        |   | C         | C | A |          |   |   |   | A |
| Calcium Carbonate        | CaCO <sub>3</sub>  | SAT.     | 2.70 | A | A | A | A | A | A      | A | A         | A | A |          | A | A |   | A |
| Calcium Chlorate         | Ca(ClO <sub>3</sub> ) <sub>2</sub>                                 | SAT.     | 2.70 |   | A | A | A | A | A      | A | A         | A | A |          | A | A |   |   |
| Calcium Chloride         | CaCl <sub>2</sub>  | 50       | 2.10 | A | A | A | A | B | A      | A | A         | A | A |          | A | A | A | A |
| Calcium Hydroxide (Lime) | Ca(OH) <sub>2</sub>  |          | 2.30 | A | A | A | A | A | A      | A | A         | A | A | A        | A | A |   | A |
| Calcium Hypochlorite     | Ca(OCL) <sub>2</sub>   | 20       | 2.30 | A | A | A | A | B | A      | C | A         | B | A |          | A | A | A | A |

# Chemical Solution

% Concentration  
Specific Gravity @ 100%  
Concentration

Ryton

Polypropylene

Kynar (Glass)

Kynar (Natural)

Nylon

Hastelloy "C"

Stainless 316

Viton

Buna "N"

Teflon

Ceramic Magnet

Carbon

Ceramic

Mica Fill Teflon

Ryton Teflon Carbon

| FORMULA                   |  |      |      | Plastics |   |   |   |   | Metals |   | "O" Rings |   |   | Bushings |   |   |   |
|---------------------------|--|------|------|----------|---|---|---|---|--------|---|-----------|---|---|----------|---|---|---|
| Calcium Nitrate           | Ca(NO <sub>3</sub> ) <sub>2</sub>  |      | 1.80 | A        | A | A | A | C | A      | A | A         | A | A | A        | A | A | A |
| Calcium Phosphate         | CaHPO <sub>4</sub>   | 50   | 2.30 |          | A | A | A |   |        |   |           |   |   |          | A | A |   |
| Calcium Sulfate           | CaSO <sub>4</sub>  |      | 2.90 | A        | A | A | A | B | A      | A | A         | B | A | A        | A | A | A |
| Carbon Dioxide (Wet)      | CO <sub>2</sub>  |      |      |          | A | A | A | A | A      | A | B         | A | A |          | A | A |   |
| Carbon Disulfide          | CS <sub>2</sub>  | 100  | 1.30 | A        | B | B | B | A | A      | A | A         | C | A |          | A | A | A |
| Carbon Tetrachloride      | CCl <sub>4</sub>   | 100  | 1.60 | A        | C | A | A | A | A      | A | A         | B | A | A        | A | A | A |
| Carbonic Acid             | H <sub>2</sub> CO <sub>3</sub>   |      |      |          | A | A | A | A | A      | A | A         | B | A |          | A | A |   |
| Castor Oil                |  |      | 0.95 | A        | A | A | A | A |        | A | A         | A | A | A        | A | A | A |
| Cetyl Alcohol             | C <sub>16</sub> H <sub>33</sub> OH   | 100  | 0.81 | A        | A |   |   | A |        | A |           |   | A | A        | A | A | A |
| Chlorine (Liquid)         | Cl <sub>2</sub>  |      |      | C        | C | A | A | C | B      | C | A         | B | A | C        | C | A | A |
| Chlorobenzene             | C <sub>6</sub> H <sub>5</sub> Cl   | 100  | 1.10 | A        | C | A | A | A | A      | A | A         | C | A | A        | A | A | A |
| Chloroform                | CHCl <sub>3</sub>  | 100  | 1.50 | B        | C | A | A | C | A      | A | A         | C | A | A        | A | A | B |
| Chlorosulfonic Acid       | ClSO <sub>2</sub> HO   | 100  | 1.80 | C        | C | C | C | C | A      | C | C         | C | A |          | A | A | A |
| Chrome Alum               |  |      | 1.80 |          | A | A | A |   |        |   | A         | A | A |          | A | A | A |
| Chromic Acid              | CrO <sub>3</sub>   | 80   | 2.70 | C        | C | C | C | C | B      | C | A         | C | A |          | C | A | C |
| Chromic Acid              | CrO <sub>3</sub>   | 10   | 2.70 | A        | A | A | A | C | A      | B | A         | C | A |          | B | A | A |
| Cider                     |  |      |      |          | A | B | B | A |        | A | A         | A |   | A        | A | A |   |
| Citric Acid               | C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> H <sub>2</sub> O                  |      | 1.50 | A        | A | A | A | A | A      | A | A         | A | A |          | A | A | A |
| Copper Chloride           | CuCl <sub>2</sub>  | SAT. | 3.40 | A        | B | A | A | C | A      | A | A         | A | A |          | A | A | A |
| Copper Cyanide            | Cu(CN) <sub>2</sub>  | SAT. |      | A        | A | A | A | A | A      | A | A         | A | A | A        | A | A |   |
| Copper Fluoride           | CuF <sub>2</sub>   | SAT. | 2.90 |          | A | A | A |   |        |   | A         | A | A |          | A | A |   |
| Copper Nitrate            | Cu(NO <sub>3</sub> ) <sub>2</sub>  | SAT. | 2.30 |          | A | A | A | C | A      | A | A         | A | A | A        | A | A |   |
| Copper Sulfate            | CuSO <sub>4</sub>  | SAT. | 2.30 | A        | A | A | A | C | A      | A | A         | A | A | A        | A | A |   |
| Cottonseed Oil            |  |      | 0.90 | A        | A | A | A | A |        | A | A         | A | A |          | A | A | A |
| Cresol                    | CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> OH                               | 100  | 1.05 | A        | A | A | A | C | A      | A | A         | C | A |          | A |   | A |
| Cuprous Chloride          | CuCl   | SAT. | 4.14 | A        | A | A | A |   | A      |   |           |   |   |          | A | A | A |
| Cyclohexane               | C <sub>6</sub> H <sub>12</sub>   | 100  | 0.80 | A        | C | A | A | A | A      | A | A         | B | A |          | A |   | A |
| Cyclohexanol              | C <sub>10</sub> H <sub>11</sub> OH   | 100  | 0.94 | A        | A | A | A | A |        |   | A         | B | A |          | A | A | A |
| Cyclohexanone             | C <sub>6</sub> H <sub>10</sub> O   | 100  | 0.95 | A        | B | C | C | A | A      | A | C         | C | A |          | A | A | A |
| Detergents                |  | 2    |      | A        | A | A | A | A | A      | A | A         | A | A |          | A | A | A |
| Developers (Photographic) |  |      |      |          | A | A | A |   | A      | A | A         | A | A | A        | A | A |   |
| Dibutyl Phthalate         | C <sub>6</sub> H <sub>4</sub> (COOC <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> | 100  | 1.05 | A        | A | C | C |   | A      | A | C         | C | A |          | A | A | A |
| Dichloroethylene          | ClHC   | 100  | 1.25 | C        | A | A | A |   | A      | A | A         | C | A |          | A | A | C |

# Chemical Solution

% Concentration  
Specific Gravity @ 100%  
Concentration

Ryton  
Polypropylene  
Kynar (Glass)  
Kynar (Natural)  
Nylon  
Hastelloy "C"  
Stainless 316  
Viton  
Buna "N"  
Teflon  
Ceramic Magnet  
Carbon  
Ceramic  
Mica Fill Teflon  
Ryton Teflon Carbon

| FORMULA                |   |      |      | Plastics |   |   |   |   | Metals |   | "O" Rings |   |   | Bushings |   |   |   |   |
|------------------------|---|------|------|----------|---|---|---|---|--------|---|-----------|---|---|----------|---|---|---|---|
| Diesel Fuel            |   | 100  |      | A        | C | A | A | A | A      | A | A         | A | A |          | A |   |   | A |
| Diethanolamine         | (HOCH <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> NH            | 100  | 1.10 | A        | A | C | C |   | A      | A |           |   | A |          | A | A |   | A |
| Dimethylformamide      | HCON(CH <sub>3</sub> ) <sub>2</sub>                             | 100  | 0.95 | A        |   | C | C |   |        | A | C         | C | A |          |   |   |   | A |
| Dimethylsulfoxide      | (CH <sub>3</sub> ) <sub>2</sub> SO                              | 100  | 1.01 | A        |   | C | C | A |        |   |           |   | A |          |   |   |   | A |
| Dowtherm               |   | 100  |      | A        | A |   |   | A | A      | A | A         | C | A |          | A |   |   | A |
| Ethanolamine           | HOCH <sub>2</sub> CH <sub>2</sub> NH <sub>2</sub>               | 100  | 1.02 | A        | A | C | C | A | A      | A | A         | A | A |          | A | A |   | A |
| Ether                  |   |      |      |          | A | A | A | C | B      | A | C         | C | A |          | A |   |   | A |
| Ethyl Acetate          | CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>                | 100  |      | A        | B | C | C | A | A      | A | C         | C | A |          | A | A | A | A |
| Ethyl Alcohol          | C <sub>2</sub> H <sub>5</sub> OH                                | 96   | 0.80 | A        | A | A | A | A | A      | A | B         | A | A |          | A | A |   | A |
| Ethyl Chloride         | C <sub>2</sub> H <sub>5</sub> Cl                                | 100  | 0.92 | A        | C | A | A | A | A      | A | A         | A | A | A        | A | A | A | A |
| Ethyl Ether            | (C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O                 | 100  | 0.71 |          | B | B | B |   | A      | A | C         | C | A |          | A | A |   |   |
| Ethylene Dichloride    | C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub>                   | 100  | 1.25 | B        | B | A | A | A | A      | A | A         | C | A |          | A | A | A | B |
| Ethylene Glycol        | CH <sub>2</sub> OHCH <sub>2</sub> OH                            |      | 1.10 | A        | A | A | A | A |        | A | A         | A | A | A        | A | A | A | A |
| Fatty Acids            |   | 100  |      | A        | A | A | A | B | A      | A | A         | B | A |          | A | A |   | A |
| Ferric Chloride        | FeCl <sub>3</sub>   | SAT. | 2.90 | A        | A | A | A | B | A      | C | A         | A | A |          | A | A | A | A |
| Ferric Nitrate         | Fe(NO <sub>3</sub> ) <sub>3</sub>                               | SAT. | 1.70 | A        | A | A | A | C | A      | A | A         | A | A |          | A | A |   | A |
| Ferric Sulfate         | Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>                 | SAT. | 3.10 | A        | A | A | A | B | A      | A | A         | B | A | A        | A | A |   | A |
| Ferrous Chloride       | FeCl <sub>2</sub>   | SAT. | 3.20 | A        | A | A | A | C | A      | C | A         | B | A |          | A | A | A | A |
| Ferrous Sulfate        | FeSO <sub>4</sub>   | SAT. | 1.90 | A        | A | A | A | C | A      | A | A         | B | A | A        | A | A |   | A |
| Fluboric Acid          | HBF <sub>4</sub>  |      | 1.80 | C        | B | A | A | C | A      | C | A         | B | A | C        | C | A | C | C |
| Fluosilicic Acid       | H <sub>2</sub> SiF <sub>6</sub>                                 |      |      | B        | A | C | A | C | A      | B | A         | A | A | C        | B | B | C | B |
| Formaldehyde           | HCHO  | 40   | 1.01 | A        | A | A | A | C | A      |   | C         | B | A |          | A | A | A | A |
| Formic Acid            | HCOOH   | 100  | 1.20 | B        | A | A | A | C | A      | A | B         | C | A |          | A | A | A | B |
| Freon 11               |   |      |      | A        | C |   |   | A |        | A | B         | A | A | A        | A | A |   | A |
| Fructose (Fruit Sugar) | C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>                   |      |      |          | A | A | A |   |        |   |           |   |   |          | A | A |   |   |
| Fruit Juices           |   |      |      | A        | A | A | A | A |        | A | A         | A |   | A        | A | A | A | A |
| Furfural               | C <sub>4</sub> H <sub>3</sub> OCHO                              | 100  | 1.20 | A        | C | B | B | A | A      | A | C         | C | A |          | A | A | A | A |
| Gelatin                |   |      |      | A        | A | A | A | B | A      | A | A         | A | A |          | A | A |   | A |
| Glucose                | C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>                   | 20   | 1.54 | A        | A | A | A | A |        | A | A         | A | A |          | A | A |   | A |
| Glycerin (Glycerol)    | C <sub>3</sub> H <sub>5</sub> (OH) <sub>3</sub>                 | 100  | 1.30 | A        | A | A | A | A | A      | A | A         | A | A | A        | A | A | A | A |
| Glycolic Acid          | CH <sub>2</sub> OHCOOH  |      | 1.30 | A        |   | B | B |   | A      | A | A         | A | A |          | A |   |   | A |
| Hexane                 | CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub> | 100  | 0.70 | A        | B | A | A | A | A      | A | A         | B | A |          | A | A | A | A |

# Chemical Solution

% Concentration  
Specific Gravity @ 100%  
Concentration

Ryton  
Polypropylene  
Kynar (Glass)  
Kynar (Natural)  
Nylon  
Hastelloy "C"  
Stainless 316  
Viton  
Buna "N"  
Teflon  
Ceramic Magnet  
Carbon  
Ceramic  
Mica Fill Teflon  
Ryton Teflon Carbon

| FORMULA                      |   |      |         | Plastics |   |   |   |   | Metals |   | "O" Rings |   |   | Bushings |   |   |   |   |
|------------------------------|---|------|---------|----------|---|---|---|---|--------|---|-----------|---|---|----------|---|---|---|---|
| Hydrobromic Acid             | HBr   | 50   | 48%1.50 | A        | A | A | A | C | A      | C | A         | C | A |          | A | A | A | A |
| Hydrochloric Acid (Muriatic) | HCl   | 30   | 38%1.20 | C        | A | A | A | C | A      | C | A         | C | A | C        | A | A | A | C |
| Hydrofluoric Acid            | HF  | 40   |         | C        | B | C | B | C | A      | C | A         | C | A | C        | A | B | C | C |
| Hydrogen Peroxide            | H <sub>2</sub> O <sub>2</sub>   | 30   | 1.50    | C        | A | A | A | B | A      | A | A         | A | A | A        | A | A | A | C |
| Hydrogen Sulfide             | H <sub>2</sub> S  |      | 1.20    | A        | A | A | A | C | A      | A | C         | B | A | A        | A | A |   | A |
| Hydroquinone                 | C <sub>6</sub> H <sub>4</sub> (OH) <sub>2</sub>                                   |      | 1.30    |          | A | A | A |   | A      | A | B         | B | A |          | A | A | A |   |
| Inks                         |   |      |         |          | A |   |   | A |        | A | A         | A |   | A        | A | A |   |   |
| Iodine Tincture              |   |      |         |          | A |   |   |   |        | C | A         | B |   |          | A | A |   |   |
| Isooctane                    |   | 100  | 0.70    | A        | C | A | A |   |        |   | A         | A |   |          |   |   | A | A |
| Isopropyl Alcohol            | (CH <sub>3</sub> ) <sub>2</sub> CHOH  |      | 0.80    | A        | A | A | A | C | A      | A | A         | B | A |          | A | A | A | A |
| Kerosene                     |   |      | 0.81    | B        | C | A | A | A | B      | A | A         | A | A | B        | A | A |   | B |
| Ketones                      |   |      |         | A        | A |   |   | A | A      | A | C         | C | A |          | A | A |   | A |
| Lactic Acid                  | CH <sub>3</sub> CHOHCOOH  | 20   | 1.20    | A        | A | B | B | C | A      | A | A         | B | A |          | A | A |   | A |
| Lanolin                      |   | 100  |         | A        | A | A | A | A | A      |   | A         |   |   |          | A | A |   | A |
| Lead Acetate                 | Pb(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> ·3H <sub>2</sub> O | SAT. | 2.50    |          | A | A | A | A | A      | A | C         | B | A |          | A | A | A |   |
| Linseed Oil                  |   | 100  | 0.94    | A        | A | A | A | A | A      | A | A         | A | A | A        | A | A | A | A |
| Lubricating Oil              |   | 100  |         | A        | A | A | A | A |        | A | A         | A | A | A        | A | A | A | A |
| Magnesium Carbonate          | MgCO <sub>3</sub>   | SAT. | 3.00    | A        | A | A | A |   | A      | A | A         | A | A | A        | A | A |   | A |
| Magnesium Chloride           | MgCl <sub>2</sub>   | SAT. | 2.30    | A        | A | A | A | B | A      | B | A         | A | A |          | A | A | A | A |
| Magnesium Hydroxide          | Mg(OH) <sub>2</sub>   | SAT. | 2.40    | A        | A | A | A | A | A      | A | B         | B | A |          | A | A | A | A |
| Magnesium Nitrate            | Mg(NO <sub>3</sub> ) <sub>2</sub>   | SAT. | 1.50    | A        | A | A | A | A | A      | A | A         | A | A | A        | A | A |   | A |
| Magnesium Sulfate            | MgSO <sub>4</sub>   | SAT. | 2.60    | A        | A | A | A | A | A      | A | A         | A | A |          | A | A |   | A |
| Mercuric Chloride            | HgCl <sub>2</sub>   | 40   | 5.40    |          | A | A | A | B | A      | C | A         | A | A |          | A | A | A |   |
| Mercuric Cyanide             | Hg(CN) <sub>2</sub>   | SAT. | 4.00    |          | A | A | A |   |        | A |           | A | A |          | A | A |   |   |
| Mercurous Nitrate            | HgNO <sub>3</sub>   | SAT. | 4.80    |          | A |   |   |   |        | A | C         |   | A | A        | A | A |   |   |
| Methyl Alcohol (Methanol)    | CH <sub>3</sub> OH  | 100  | 0.80    | A        | A | A | A | A | A      | A | C         | A | A | A        | A | A | A | A |
| Methylene Chloride           | CH <sub>2</sub> Cl <sub>2</sub>   | 100  | 1.30    | A        | C | C | C | A | A      | A | C         | B | A |          | A | A | A | A |
| Methyl Ethyl Ketone          | CH <sub>3</sub> COCH <sub>2</sub> CH <sub>3</sub>                                 | 100  | 0.82    | A        | A | C | C | A | A      | A | C         | C | A | A        | A | A | A | A |
| Methyl Methacrylate          | CH <sub>2</sub> C(CH <sub>3</sub> )COOCH <sub>3</sub>                             |      | 0.95    |          | A | B | B |   |        |   | C         | C | A |          | A | A |   |   |
| Milk                         |   |      |         |          | A | A | A | A | A      | A | A         | A | A | A        | A | A | A |   |
| Mineral Oil                  |   | 100  |         | A        | A | A | A | A |        | A | A         | A | A | A        | A | A | A | A |
| Molasses                     |   |      |         |          | A | A | A | A |        | A | A         | A | A | A        | A | A |   |   |

# Chemical Solution

% Concentration  
 Specific Gravity @ 100%  
 Concentration

Ryton

Polypropylene

Kynar (Glass)

Kynar (Natural)

Nylon

Hastelloy "C"

Stainless 316

Viton

Buna "N"

Teflon

Ceramic Magnet

Carbon

Ceramic

Mica Fill Teflon

Ryton Teflon Carbon

| FORMULA                |  |      |      | Plastics |   |   |   |   | Metals |   | "O" Rings |   |   | Bushings |   |   |   |
|------------------------|--|------|------|----------|---|---|---|---|--------|---|-----------|---|---|----------|---|---|---|
| Motor Oil              |  | 100  |      | A        | A | A | A | A |        | A | A         | A | A | A        | A | A | A |
| Naphthalene            | C <sub>10</sub> H <sub>8</sub>                       | 100  | 1.15 | A        | A | A | A |   | A      | A | B         | C | A |          | A | A | A |
| Nickel Chloride        | NiCl <sub>2</sub>                                    | SAT. | 3.50 |          | A | A | A | B | A      | B | A         | A | A |          | A | A |   |
| Nickel Nitrate         | Ni(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O | SAT. | 2.10 |          | A | A | A |   | A      | A | A         | A | A | A        | A | A |   |
| Nickel Sulfate         | NiSO <sub>4</sub>                                    | SAT. | 3.70 |          | A | A | A | A | A      | A | A         | A | A |          | A | A |   |
| Nitric Acid            | HNO <sub>3</sub>                                     | 25   | 1.50 | C        | A | A | A | C | A      | A | B         | C | A | C        | B | A | A |
| Nitric Acid (Fuming)   | HNO <sub>3</sub>                                     |      |      | C        | C | C | C | C | B      | C | C         | C | A | C        | C | A | C |
| Nitrobenzene           | C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>        | 100  | 1.20 | A        | A | B | B | C | A      | B | A         | C |   |          | A | A | A |
| Oleic Acid             |  |      | 0.90 |          | A | A | A |   | A      | A | B         | B | A |          | A | A | A |
| Olive Oil              |  | 100  | 0.90 | A        | A | A | A | A |        | A | A         | A |   |          | A | A | A |
| Oxalic Acid (Aqueous)  | (COOH) <sub>2</sub>                                  | 50   | 1.70 | A        | A | A | A |   | A      | B | A         | B | A |          | A | A | A |
| Paraffin               |  | 100  |      | A        | A | A | A | A | A      | A | A         | A | A |          | A | A | A |
| Perchloroethylene      | (CCl <sub>2</sub> ) <sub>2</sub>                     |      | 1.60 | B        | C | A | A |   | A      | A | A         | C | A |          | A | A | A |
| Petroleum Ether        |  | 100  | 0.70 | A        | C |   |   |   | A      | A |           |   | A | A        | A | A | A |
| Phenol                 | C <sub>6</sub> H <sub>5</sub> OH                     | 100  | 1.10 | A        | A | A | A | C | A      | A | A         | C | A |          | A | A | A |
| Phosphoric Acid        | H <sub>3</sub> PO <sub>4</sub>                       | 95   | 1.80 | C        | A | A | A | C | A      | B | A         | B | A | C        | A | A | A |
| Phosphorus Trichloride | PCl <sub>3</sub>                                     | 100  | 1.60 | B        | C | A | A | C | A      | A | A         | C | A |          | A |   | B |
| Plating Solutions      |  |      |      |          |   |   |   |   |        |   |           |   |   |          |   |   |   |
| Acid Copper            |  |      |      | A        | A | A | A |   |        |   | A         | A | A |          | A | A | A |
| Brass                  |  |      |      |          | A | A | A |   |        |   | A         | A | A |          | A | A |   |
| Cadmium                |  |      |      | A        | A | A | A |   |        |   | A         | A | A |          | A | A | A |
| Chromium               |  |      |      | A        | A | A | A |   |        |   | A         | A | A |          | A | A | A |
| Copper                 |  |      |      | A        | A | A | A |   |        |   | A         | A | A |          | A | A | A |
| Gold                   |  |      |      | A        | A | A | A |   |        |   | A         | A | A |          | A | A | A |
| Indium                 |  |      |      | A        | A |   |   |   |        |   | A         | A | A |          | A | A | A |
| Lead                   |  |      |      | A        | A | A | A | C |        |   | A         | A | A |          | A | A | A |
| Nickel                 |  |      |      | A        | A | A | A |   |        |   | A         | A | A |          | A | A | A |
| Rhodium                |  |      |      | A        | A | A | A |   |        |   | A         | A | A |          | A | A | A |
| Silver                 |  |      |      | A        | A | A | A |   |        |   | A         | A | A |          | A | A | A |
| Tin                    |  |      |      | A        | A | A | A |   |        |   | A         | A | A |          | A | A | A |
| Zinc                   |  |      |      | A        | A | A | A |   |        |   | A         | A | A |          | A | A | A |
| Potassium Acetate      | KC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>        | 40   | 1.60 | A        | A | A | A |   |        |   | C         | B | A |          | A | A | A |

# Chemical Solution

% Concentration  
Specific Gravity @ 100%  
Concentration

Ryton

Polypropylene

Kynar (Glass)

Kynar (Natural)

Nylon

Hastelloy "C"

Stainless 316

Viton

Buna "N"

Teflon

Ceramic Magnet

Carbon

Ceramic

Mica Fill Teflon

Ryton Teflon Carbon

| FORMULA                      |  | Plastics |      |   |   |   |   | Metals |   | "O" Rings |   |   | Bushings |   |   |   |   |   |
|------------------------------|--|----------|------|---|---|---|---|--------|---|-----------|---|---|----------|---|---|---|---|---|
| Potassium Bicarbonate        | KHCO <sub>3</sub>                                  | SAT.     | 2.20 | A | A | A | A | A      | B | B         | A | A | A        |   | A | A |   | A |
| Potassium Borate             | KBO <sub>2</sub>                                   | 1        |      |   | A | A | A |        |   |           | A | A | A        |   | A | A |   |   |
| Potassium Bromate            | KBrO <sub>3</sub>                                  | 10       | 3.30 |   | A | A | A |        |   |           | A | A | A        |   | A | A |   |   |
| Potassium Bromide            | KBr  | SAT.     | 2.70 | A | A | A | A | C      | A | A         | A | A | A        |   | A | A | A | A |
| Potassium Carbonate          | K <sub>2</sub> CO <sub>3</sub>                     | SAT.     | 2.40 | A | A | A | A | A      | A | A         | A | A | A        | A | A | A | A | A |
| Potassium Chlorate           | KClO <sub>3</sub>                                  | SAT.     | 2.30 |   | A | A | A | C      | A | A         | A | A | A        |   | A | A |   |   |
| Potassium Chloride           | KCl  | SAT.     | 2.00 | A | A | A | A | C      | B | A         | A | A | A        |   | A | A | A | A |
| Potassium Chromate           | K <sub>2</sub> CrO <sub>4</sub>                    | 40       | 2.70 |   | A | A | A |        | B | B         | A | A | A        |   | A | A |   |   |
| Potassium Cyanide            | KCN  | SAT.     | 1.50 |   | A | A | A | A      | B | A         | A | A | A        |   | A | A |   |   |
| Potassium Dichromate         | K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>      | 40       | 2.70 | A | A | A | A | C      | B | A         | A | A | A        | A | A | A | A | A |
| Potassium Ferrocyanide       | K <sub>4</sub> Fe(CN) <sub>6</sub>                 |          | 1.90 |   | A | A | A | A      | A | A         | A | C | A        | A | A | A | A |   |
| Potassium Fluoride           | KF   |          | 2.50 |   | A | A | A |        |   | A         | A | A | A        |   | A | A |   |   |
| Potassium Hydroxide          | KOH  | 50       | 2.00 | A | A | C | C | A      | A | A         | C | B | A        | A | A | A | B | A |
| Potassium Nitrate            | KNO <sub>3</sub>                                   | SAT.     | 2.10 | A | A | A | A | C      | A | A         | A | A | A        |   | A | A | A | A |
| Potassium Perborate          |  | SAT.     |      |   | A | A | A |        |   |           |   |   | A        |   | A | A |   |   |
| Potassium Perchlorate        | KClO <sub>4</sub>                                  | 10       | 2.50 |   | A | A | A |        | A | A         |   | C | A        |   | A | A |   |   |
| Potassium Permanganate       | KMnO <sub>4</sub>                                  | 20       | 2.70 | A | A | A | A | C      | A | A         | A | A | A        |   | A | A | A | A |
| Potassium Sulfate            | K <sub>2</sub> SO <sub>4</sub>                     |          | 2.70 | A | A | A | A | C      | A | A         | A | A | A        | A | A | A |   | A |
| Potassium Sulfide            | K <sub>2</sub> S                                   |          | 1.80 | A | A | A | A |        |   | A         | B |   | A        |   | A | A |   | A |
| Propyl Alcohol               | CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH | 100      | 0.80 | A | A | A | A | C      | A | A         | A | A | A        |   | A | A |   | A |
| Propylene Glycol             | CH <sub>3</sub> CHOHCH <sub>2</sub> OH             |          | 1.00 | A | A | A | A |        |   | A         | A | C | A        | A | A | A |   | A |
| Pyridine                     | N(CH) <sub>4</sub> CH                              | 100      | 1.00 | B | A | C | C | C      | A | B         | C | C | A        |   | A | A | A | B |
| Silicone Oil                 |  | 100      |      | A | A | A | A | A      |   | A         | A | C | A        | A | A | A |   | A |
| Soap Solution (Concentrated) |  |          |      | A | A | A | A | A      | A | A         | A | A | A        | A | A | A | A | A |
| Sodium Acetate               | NaC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>     |          | 1.50 | A | A | A | A | A      | A | A         | C | B | A        |   | A | A | A | A |
| Sodium Bicarbonate           | NaHCO <sub>3</sub>                                 | SAT.     | 2.20 | A | A | A | A | A      | A | A         | A | A | A        | A | A | A | A | A |
| Sodium Bisulfate             | NaHSO <sub>4</sub>                                 | SAT.     | 2.40 | A | A | A | A | C      | A | A         | B | A | A        |   | A | A |   | A |
| Sodium Bisulfite             | NaHSO <sub>3</sub>                                 | SAT.     | 1.50 | A | A | A | A | C      | A | A         | A | A | A        |   | A | A |   | A |
| Sodium Borate (Borax)        | Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>      |          | 1.70 | A | A | A | A | A      | A | A         | A | A | A        | A | A | A |   | A |
| Sodium Bromide               |  |          |      |   | A | A | A | A      | A |           |   |   | A        |   | A | A | A |   |
| Sodium Carbonate             |  | SAT.     |      | A | A | A | A | A      | B | A         | A | A | A        | A | A | A | A | A |
| Sodium Chlorate              | NaClO <sub>3</sub>                                 | SAT.     | 2.50 | A | A | A | A | B      | A | A         | A | A | A        |   | A | A | A | A |
| Sodium Chloride              | NaCl   | SAT.     | 2.20 | A | A | A | A | A      | A | A         | A | A | A        | A | A | A | A | A |

# Chemical Solution

% Concentration  
Specific Gravity @  
Concentration

Ryton

Polypropylene

Kynar (Glass)

Kynar (Natural)

Nylon

Hastelloy "C"

Stainless 316

Viton

Buna "N"

Teflon

Ceramic Magnet

Carbon

Ceramic

Mica Fill Teflon

Ryton Teflon Carbon

| FORMULA                       |   | Plastics |         |   |   |   | Metals |   | "O" Rings |   |   | Bushings |   |   |   |   |   |   |   |
|-------------------------------|---|----------|---------|---|---|---|--------|---|-----------|---|---|----------|---|---|---|---|---|---|---|
| Sodium Chlorite               | NaClO <sub>2</sub>  | 20       |         | C | A | A |        | A | A         | C | C | A        |   | A | A |   |   |   |   |
| Sodium Cyanide                | NaCN  | SAT.     |         | A | A | A | A      | B | A         | A | A | A        | A | A | A | A | A |   |   |
| Sodium Dichromate             | Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>                    | SAT.     | 2.50    | A | A | A | A      | B | A         |   |   | C        | A |   | A | A | A |   |   |
| Sodium Ferricyanide           | NaFe(CN) <sub>6</sub>   | SAT.     |         |   | A | A | A      |   | A         | A | A |          | A |   | A | A |   |   |   |
| Sodium Ferrocyanide           | Na <sub>4</sub> Fe(CN) <sub>6</sub>                               | SAT.     | 1.50    |   | A | A | A      |   |           |   | A |          | A |   | A | A |   |   |   |
| Sodium Fluoride               | NaF   | SAT.     | 2.60    |   | A | A | A      | A | A         | C | C | C        | A |   | A | A |   |   |   |
| Sodium Hydroxide Caustic Soda | NaOH  | 50       | 2.10    | A | A | B | B      | B | A         | B | B | C        | A | C | A | A | B | A |   |
| Sodium Hypochlorite           | NaOCl   | 15       |         | B | B | A | A      | C | C         | C | A | B        | A | A | C | A | A | B |   |
| Sodium Nitrate                | NaNO <sub>3</sub>   |          | 2.30    | A | A | A | A      | A | A         | A | B | B        | A | A | A | A | A | A |   |
| Sodium Nitrite                | NaNO <sub>2</sub>   |          | 2.20    | A | A | A | A      |   | A         | A | A | A        | A |   | A | A |   | A |   |
| Sodium Silicate               | Na <sub>2</sub> SiO <sub>3</sub>                                  |          |         | A | A | A | A      | A | B         | A | A | A        | A |   | A | A | A | A |   |
| Sodium Sulfate                | Na <sub>2</sub> SO <sub>4</sub>                                   | SAT.     | 2.70    | A | A | A | A      | A | A         | A | A | A        | A |   | A | A |   | A |   |
| Sodium Sulfide                | Na <sub>2</sub> S   | 25       | 1.40    | A | A | A | A      | A | B         | A | A | A        | A |   | A | A |   | A |   |
| Sodium Sulfite                | Na <sub>2</sub> SO <sub>3</sub>                                   | SAT.     | 2.60    | A | A | A | A      | C | A         | A | A | A        | A |   | A | A |   | A |   |
| Sodium Thiosulfate            | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>                     | 10       | 1.70    | A | A | A | A      |   |           | A | A | A        | A |   | A |   |   | A |   |
| Stannic Chloride              | SnCl <sub>4</sub>   | SAT.     | 2.30    | A | A | A | A      | A | B         | C | A | A        | A |   | A | A | A | A |   |
| Stannous Chloride             | SnCl <sub>2</sub>   | SAT.     | 4.00    | A | A | A | A      | C | A         | A | A | C        | A |   | A | A |   | A |   |
| Starch                        |   |          |         | A | A | A | A      | A |           | A | A | A        |   | A | A | A |   | A |   |
| Sulfamic Acid                 | HSO <sub>3</sub> NH <sub>2</sub>                                  |          | 2.10    |   | A |   |        |   |           |   |   | C        | A |   | A | A |   |   |   |
| Sulfur                        | S   |          | 2.10    | A | A | A | A      |   | A         | A | C | C        | A |   | A | A |   | A |   |
| Sulfuric Acid                 | H <sub>2</sub> SO <sub>4</sub>                                    | 50       | 50%1.39 | B | A | A | A      | C | A         | C | A | C        | A | C | A | A | A | A |   |
| Sulfuric Acid                 | H <sub>2</sub> SO <sub>4</sub>                                    | 93       | 1.80    | C | A | A | A      | C | A         | B | A | C        | A | C | A | A |   | C |   |
| Tannic Acid                   | C <sub>76</sub> H <sub>52</sub> O <sub>46</sub>                   | 10       |         |   | A | A | A      | C | B         | A | A | B        | A | A | A | A |   |   |   |
| Tartaric Acid                 |   |          | 1.80    | A | A | A | A      | C | A         | A | A | A        | A | A | B | A | A | A | A |
| Tetrahydrofuran               | CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> O | 100      | 0.90    | B | C | C | C      |   |           | A | B | C        | A |   | A | A | A | B |   |
| Tetralin                      |   | 100      |         | A | C |   |        |   |           |   | A | C        | A |   | A | A | A | A |   |
| Toluene                       | CH <sub>3</sub> C <sub>6</sub> H <sub>5</sub>                     | 100      | 0.90    | A | C | A | A      | A | A         | A | A | C        | A | A | A | A | A | A |   |
| Transformer Oil               |   | 100      |         | A | A | C | C      | A |           | A | A | A        | A | A | A | A | A | A |   |
| Trichloroacetic Acid          | CCl <sub>3</sub> COOH   | 100      | 1.60    | A | A | A | A      |   | A         | C | C | B        |   |   | A | A |   | A |   |
| Trichloroethylene             | C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>                     | 100      | 1.50    | A | C | A | A      | C | A         | A | A | C        | A | A | A | A | A | A |   |
| Triethanolamine               | (HOCH <sub>2</sub> CH <sub>2</sub> ) <sub>3</sub> N               | 100      | 1.10    | A | A | A | A      |   | A         |   | A | C        | A |   | A | A | A | A |   |
| Turpentine                    | C <sub>10</sub> H <sub>16</sub>                                   | 100      | 0.90    | A | C | A | A      | A | A         | A | A | B        | A |   | A | A | A | A |   |
| Urea                          | CO(NH <sub>2</sub> ) <sub>2</sub>                                 |          | 1.30    |   | A | A | A      |   | A         |   | A | A        | A |   | A | A | A |   |   |



\*\*A-Recommended \*\*B-Questionable \*\*C-Not Recommended

# Chemical Solution

% Concentration  
Specific Gravity @ 100%  
Concentration

Ryton

Polypropylene

Kynar (Glass)

Kynar (Natural)

Nylon

Hastelloy "C"

Stainless 316

Viton

Buna "N"

Teflon

Ceramic Magnet

Carbon

Ceramic

Mica Fill Teflon

Ryton Teflon Carbon

| FORMULA       |   |      | Plastics |   |   |   | Metals |   | "O" Rings |   |   | Bushings |   |   |   |   |   |
|---------------|---|------|----------|---|---|---|--------|---|-----------|---|---|----------|---|---|---|---|---|
|               |   |      |          |   |   |   |        |   |           |   |   |          |   |   |   |   |   |
| Urine         |   |      |          | A |   |   | A      |   | A         | A | A | A        |   | A | A |   |   |
| Vinegar       |   |      |          | A | A | A | A      | A | A         | A | A | A        | A | A | A | A | A |
| Water (Fresh) | H <sub>2</sub> O  | 1.00 |          | A | A | A | A      | A | A         | A | A | A        | A | A | A | A | A |
| Water (Salt)  |   |      |          | A | A | A | A      | A | A         | A | A | A        | A | A | A | A | A |
| Whiskey       |   | 0.90 |          |   | A | A | A      | A |           | A | A | A        | A |   | A | A |   |
| Wines         |   |      |          |   | A | A | A      | A |           | A | A | A        | A |   | A | A | A |
| Xylene        | C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub> | 100  | 0.90     | A | C | A | A      | A | A         | A | A | C        | A |   | A | A | A |
| Zinc Chloride | ZnCl <sub>2</sub>   | SAT. | 2.90     | A | A | A | A      | A | B         | B | A | A        | A |   | A | A | A |
| Zinc Oxide    | ZnO   |      | 5.50     | A | A |   |        |   |           |   |   |          |   |   | A | A | A |
| Zinc Sulfate  | ZnSO <sub>4</sub>   | SAT. | 2.00     |   | A | A | A      | A | A         | A | A | A        | A | A | A | A |   |