

| | | | Plastics | | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | | | |
|---|----------------------------------|---|----------|-----------------|---|-----|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|------------|------------|-------------|-------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | Formula | % Concentration | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Vinylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C |
| 1 | Acetaldehyde | CH ₃ CHO | - | - | X | X | 100 | 120 | X | X | X | - | 350 | 150 | X | X | 100 | 200 | X | X | A | A | A | A | A | A |
| 2 | Acetaldehyde, Aqueous | - | 40 | - | X | X | 100 | 120 | X | X | - | - | 350 | 150 | X | X | 100 | 200 | X | 100 | A | A | A | A | A | A |
| 3 | Acetamide | CH ₃ CONH ₂ | - | - | - | - | 100 | 73 | 150 | - | - | - | - | - | - | 200 | 200 | X | 100 | - | A | B | A | - | - | |
| 4 | Acetate Solvents, Crude | - | - | - | X | X | - | 78 | - | - | X | - | 350 | - | - | - | X | X | X | X | A | A | B | A | - | B |
| 5 | Acetate Solvents, Pure | - | - | - | X | X | - | X | - | - | X | - | 350 | - | - | - | X | X | X | X | - | - | B | A | - | - |
| 6 | Acetic Acid* | CH ₃ COOH | 5 | - | 140 | 140 | 200 | 140 | X | 140 | 68 | 250 | 350 | 150 | 200 | - | X | 200 | 100 | - | - | - | A | A | A | A |
| 7 | Acetic Acid* | CH ₃ COOH | 10 | - | 140 | 140 | 200 | 140 | X | 140 | 68 | 250 | 350 | 150 | 200 | - | 180 | 200 | X | X | - | - | A | A | A | A |
| 8 | Acetic Acid* | CH ₃ COOH | 20 | - | 140 | 140 | 200 | 140 | X | 140 | X | 250 | 350 | X | 200 | - | 180 | 200 | X | X | - | - | A | A | A | A |
| 9 | Acetic Acid* | CH ₃ COOH | 30 | - | 140 | 140 | 200 | 140 | X | 140 | X | 250 | 350 | - | 100 | - | 180 | 200 | - | - | - | - | A | A | A | A |
| 10 | Acetic Acid* | CH ₃ COOH | 50 | - | 100 | 100 | 200 | 100 | X | 140 | X | 250 | 350 | X | 100 | - | 180 | 200 | X | X | - | - | A | A | A | A |
| 11 | Acetic Acid* | CH ₃ COOH | 60 | - | 73 | 73 | 150 | 100 | X | 140 | X | - | 350 | X | X | - | 180 | 100 | X | X | - | - | A | A | A | A |
| 12 | Acetic Acid* | CH ₃ COOH | 80 | - | X | X | 140 | 73 | X | 70 | X | 212 | 350 | X | X | - | 180 | 100 | X | X | - | - | A | A | A | A |
| 13 | Acetic Acid*, Glacial | CH ₃ COOH | 100 | 1.05 | 110 | 110 | 180 | 180 | X | 70 | X | 212 | 350 | X | X | - | X | 73 | X | X | A | A | A | A | A | A |
| 14 | Acetic Anhydride | (CH ₃ CO) ₂ O | - | - | X | X | 73 | 90 | X | X | X | 73 | - | X | X | - | X | 200 | X | X | A | A | - | - | - | - |
| 15 | Acetic Ether (See Ethyl Acetate) | - | - | - | X | X | - | - | - | - | X | - | 350 | 150 | X | X | X | - | X | X | - | - | A | - | - | - |
| 16 | Acetol (Hydroxy 2 Propanone) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | A | A | A | A |
| 17 | Acetone | CH ₃ COCH ₃ | - | - | X | X | - | - | - | - | - | 150 | - | - | - | - | - | - | - | - | - | - | A | A | A | A |
| 18 | Acetonitrile (Methyl Cyanide) | CH ₃ CN | - | 0.8 | X | X | X | 150 | X | X | X | 212 | 400 | X | X | - | X | - | X | X | - | - | A | A | A | A |
| 19 | Acetophenone | C ₆ H ₅ COCH ₃ | - | - | X | X | 150 | 200 | - | - | X | 121 | 400 | 120 | X | - | X | - | - | X | - | - | A | A | - | B |
| 20 | Acetyl Acetone | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | Acetyl Benzene | C ₆ H ₅ COCH ₃ | - | 1.03 | X | X | 73 | 73 | - | - | X | - | - | X | X | - | X | - | X | X | - | - | - | A | - | - |
| 22 | Acetyl Bromide | CH ₃ COBr | - | - | X | X | - | - | - | - | X | - | - | X | X | - | X | - | X | X | - | - | - | A | - | - |
| 23 | Acetyl Chloride (dry) | CH ₃ COCl ₃ | - | - | - | - | - | 100 | X | X | X | 150 | - | X | X | - | - | X | - | - | - | - | - | A | - | - |
| 24 | Acetyl Oxide | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 25 | Acetyl Propane | - | - | - | X | X | 130 | 100 | - | - | X | - | 200 | - | - | - | X | - | X | X | - | - | A | A | - | - |
| 26 | Acetylene | - | - | - | 100 | 100 | - | 200 | - | - | - | 150 | - | - | - | - | - | - | - | - | A | A | - | A | - | B |
| 27 | Acetylene Dichloride | CLHC:CHLC | - | - | X | X | - | X | - | - | X | - | 300 | - | - | - | 150 | - | - | - | - | - | - | - | - | - |
| 28 | Acetylene Tetrachloride | (CHCL ₂) ₂ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | Acid Mine Water | - | - | - | 100 | 150 | 150 | 250 | - | - | - | - | 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | Acrylic Acid | CH ₂ CHCOOH | - | - | X | X | X | 100 | X | X | X | 212 | 170 | X | X | - | - | - | - | - | - | - | - | - | - | - |
| 31 | Acrylic Emulsions* | - | - | - | - | - | - | - | X | 70 | - | - | - | - | - | - | X | X | X | X | - | - | A | - | - | A |
| 32 | Acrylonitrile | H ₂ CCHCN | - | - | X | X | 73 | 100 | 140 | 140 | X | 73 | 350 | 100 | X | - | 250 | 200 | 160 | 180 | A | A | B | - | - | B |
| 33 | Adipic Acid Aqueous | - | - | - | 140 | 180 | 100 | 250 | 140 | 140 | - | 150 | 350 | - | - | - | - | - | - | - | - | - | A | A | A | A |
| 34 | Alcohol (See Ethyl Alcohol) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 35 | Alcohol, Allyl | - | - | - | 80 | 80 | 140 | 200 | 100 | 140 | X | - | 250 | 200 | 100 | - | 200 | 70 | 100 | 180 | - | - | A | - | - | A |
| 36 | Alcohol, Amyl | C ₅ H ₁₁ OH | - | - | 100 | 100 | 170 | 250 | 140 | 140 | X | 250 | 400 | 200 | 100 | - | 190 | 200 | 140 | 140 | - | - | A | - | - | A |
| 37 | Alcohol, Benzyl | C ₆ H ₅ CH ₂ OH | - | - | X | X | 140 | 180 | - | - | X | 250 | - | - | - | - | 140 | X | 140 | X | - | - | A | - | - | A |
| 38 | Alcohol, Butyl | - | - | - | 140 | 180 | 180 | 240 | 140 | 140 | X | 250 | 250 | 200 | 100 | - | 100 | 180 | 140 | 140 | - | - | A | - | - | A |
| 39 | Alcohol, Diacetone | - | - | - | X | - | 73 | 73 | - | - | X | 150 | 350 | - | - | - | X | 70 | X | - | - | - | A | - | - | A |
| 40 | Alcohol, Ether | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41 | Alcohol, Ethyl | C ₂ H ₅ OH | - | - | 140 | * | 180 | 750 | 140 | 140 | X | 250 | 300 | 180 | - | - | 170 | 170 | 170 | 200 | A | A | A | - | - | A |
| 42 | Alcohol, Hexyl | - | - | - | 100 | 70 | 70 | - | - | - | X | 73 | - | - | - | - | 160 | X | 70 | 70 | A | A | A | - | - | A |
| 43 | Alcohol, Isobutyl | CH ₃) ₂ CHCH ₂ OH | - | - | - | - | - | 250 | - | - | X | - | 300 | 180 | 100 | - | 140 | 140 | 70 | 70 | A | A | A | - | - | A |
| 44 | Alcohol, Isopropyl | CH ₃ OH | - | - | 140 | * | 150 | 230 | 140 | 140 | X | 250 | 300 | 180 | 100 | - | 200 | 140 | 70 | 200 | A | A | A | - | - | - |
| 45 | Alcohol, Methyl | - | - | - | 140 | 150 | 150 | 230 | 140 | 140 | X | 250 | 300 | 150 | - | - | 100 | 100 | 140 | 140 | A | A | A | - | - | A |
| 46 | Alcohol, Octyl | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 47 | Alcohol, Polyvinyl | - | - | - | 140 | 180 | 180 | 250 | - | - | 68 | - | 280 | 150 | 100 | - | 210 | 100 | - | - | - | - | A | A | A | - |
| 48 | Alcohol, Propargyl | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | A | - | - |
| 49 | Alkanes | - | - | - | 140 | 100 | 100 | 250 | - | - | - | - | 300 | - | - | - | 210 | X | X | X | - | - | A | - | - | - |
| 50 | Alkazene | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | Plastics | | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | |
|---|--|--|----------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|------------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Virylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C |
| 51 | Allyl Aldehyde | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 52 | Allyl Bromide | C ₃ H ₅ Br | X | - | - | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 53 | Allyl Chloride | C ₃ H ₅ CL | X | X | 100 | 200 | 100 | X | 250 | 350 | - | - | - | 100 | X | X | X | - | - | A | - | - | - |
| 54 | Alum (See Aluminum Sulfate) | AL ₂ (SO ₄) ₃ | 140 | 180 | 180 | 210 | 140 | 140 | 176 | 250 | 250 | 270 | 200 | - | 140 | 200 | 150 | 200 | - | - | A | - | - |
| 55 | Alum, Ammonium | - | 140 | 140 | 200 | 220 | 140 | 140 | 176 | 250 | 400 | 270 | 200 | - | 180 | - | X | 180 | - | - | - | - | - |
| 56 | Alum, Chrome | - | 120 | 160 | 180 | 250 | 140 | 140 | 176 | 150 | 400 | 270 | 200 | - | 180 | 140 | 80 | 180 | - | - | B | - | - |
| 57 | Alum, Potassium | ALK(SO ₄) ₂ | 140 | 140 | 180 | 280 | 140 | 140 | 176 | 250 | 400 | 270 | 200 | - | 180 | 200 | 80 | 180 | - | - | A | - | - |
| 58 | Aluminum, Acetate | - | 100 | 100 | 100 | 250 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 59 | Aluminum, | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60 | Ammonium Sulfate | - | - | - | 200 | 220 | - | - | 176 | 250 | - | - | - | 80 | - | 140 | 140 | - | - | - | - | - | - |
| 61 | Aluminum, Bromide | ALBr ₃ | - | - | - | 250 | - | - | 176 | - | - | - | - | 180 | - | - | 140 | - | - | - | - | - | - |
| 62 | Aluminum, Chloride | ALCL ₃ | 140 | 170 | 170 | 140 | 140 | 140 | 176 | 250 | 210 | - | 200 | - | 180 | 210 | 200 | 200 | A | A | C | - | - |
| 63 | Aluminum, Citrate | - | - | - | - | - | 140 | 140 | - | - | - | 180 | 180 | - | - | - | - | - | - | - | - | - | - |
| 64 | Aluminum, Fluoride | ALF ₃ | 140 | 160 | 200 | 280 | 160 | - | 176 | 250 | - | - | - | 180 | - | 200 | 200 | - | - | - | - | - | - |
| 65 | Aluminum, Formate | AL(HCOO) ₃ | 140 | 180 | 180 | 250 | - | - | - | - | 280 | - | - | 250 | 210 | 160 | 180 | - | - | - | B | - | - |
| 66 | Aluminum, Hydroxide | AL(OH) ₃ | 140 | 180 | 180 | 250 | - | - | 176 | 250 | 250 | - | - | 180 | 150 | 160 | 180 | - | - | - | A | B | - |
| 67 | Aluminum, Nitrate | AL(NO ₃) ₃ | 140 | 180 | 180 | 200 | 140 | 140 | 176 | 250 | 210 | 250 | 180 | - | 200 | 200 | 200 | 200 | A | A | - | - | - |
| 68 | Aluminum, Phosphate | ALPO ₄ | - | - | - | - | 140 | 140 | 176 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 69 | Aluminum, Potassium Sulfate (Known as Potash Alum) | - | 140 | 140 | 180 | 280 | 140 | 140 | 176 | 250 | 400 | 270 | 200 | - | 200 | 150 | 180 | - | - | - | - | - | - |
| 70 | Aluminum, Salts | - | - | - | - | - | 140 | 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 71 | Aluminum, Sulfate | AL ₂ (SO ₄) ₃ | 10 | - | 140 | 180 | 280 | - | 176 | 250 | 250 | 270 | 300 | - | - | 210 | 160 | 200 | A | A | - | - | A A |
| 72 | Amines | - | 15 | - | - | - | - | - | 176 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 73 | Ammonia | NH ₃ | 25 | - | 140 | 180 | 210 | - | 176 | - | 250 | - | - | 70 | - | - | 140 | - | - | - | - | - | - |
| 74 | Ammonia | NH ₃ | 99 | - | 140 | 180 | 210 | - | 176 | - | 250 | - | - | - | - | - | - | - | - | - | - | - | - |
| 75 | Ammonia, Gas | NH ₃ | - | X | X | 100 | 180 | - | - | - | 250 | - | - | X | 120 | - | 180 | - | - | A | A | - | A |
| 76 | Ammonia, Anhydrous | - | X | X | 180 | 250 | 160 | - | - | - | 400 | X | - | - | - | 200 | 180 | C | A | - | - | - | - |
| 77 | Ammonium Hydroxide | NH ₄ OH | 140 | X | 180 | 250 | 150 | - | 176 | 300 | 400 | 150 | 100 | - | X | 200 | 80 | X | - | - | A | - | A |
| 78 | Ammonium, Nitrate | NH ₄ NO ₃ | 140 | 190 | 180 | 250 | 140 | 140 | 176 | 250 | 350 | 230 | 200 | - | X | 200 | 160 | 180 | - | - | - | - | - |
| 79 | Ammonium Phosphate Monobasic | NH ₄ H ₂ PO ₄ | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 250 | 200 | 150 | - | 180 | 120 | 140 | 100 | - | - | A | - | A |
| 80 | Ammonium Phosphate Tribasic | - | 140 | 180 | 180 | 250 | 140 | 140 | - | - | 250 | 200 | 150 | - | 180 | 200 | 140 | 100 | - | - | A | - | A |
| 81 | Ammonium, Acetate | - | 140 | 180 | 180 | - | - | - | 150 | 350 | - | - | - | X | 140 | X | - | - | - | B | - | - | - |
| 82 | Ammonium, Alum (See Aluminum Ammonium) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 83 | Ammonium, Bichromate | (NH ₄) ₂ Cr ₂ O ₇ | 73 | - | - | 250 | - | - | - | - | - | - | - | 70 | 100 | 100 | 100 | - | - | - | - | - | - |
| 84 | Ammonium, Bifluoride | NH ₄ HF ₂ | 140 | 180 | 180 | 250 | - | - | - | 250 | 300 | - | - | 140 | - | X | 80 | - | - | A | - | - | - |
| 85 | Ammonium, Bisulfide | NH ₄ HS | 140 | 180 | - | 250 | - | - | - | 250 | 300 | - | - | - | - | - | 180 | - | - | - | - | - | - |
| 86 | Ammonium, Carbonate | NH ₄ HCO ₃ | 140 | 180 | 200 | 250 | 140 | 140 | 68 | 250 | 250 | 180 | 100 | - | 200 | 200 | 200 | - | - | A | - | - | - |
| 87 | Ammonium, Casenite | - | - | - | - | - | 140 | 140 | - | - | - | 180 | 100 | - | - | - | - | - | - | - | - | - | - |
| 88 | Ammonium, Chloride | NH ₄ CL | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 250 | 270 | 200 | - | 220 | - | 200 | 180 | A | A | B | - | - |
| 89 | Ammonium, Dichromate | (NH ₄) ₂ Cr ₂ O ₇ | 73 | - | - | 250 | - | - | - | 73 | - | - | - | - | 70 | 100 | 100 | 100 | - | - | - | - | - |
| 90 | Ammonium, Fluoride | NH ₄ F | 10 | - | 100 | - | 180 | 250 | - | 176 | 250 | - | - | - | 140 | - | 200 | 100 | - | - | - | - | - |
| 91 | Ammonium, Fluoride | NH ₄ F | 20 | - | 100 | - | 180 | 250 | - | 176 | - | - | 150 | - | 140 | - | - | 100 | - | - | - | - | - |
| 92 | Ammonium, Fluoride | NH ₄ F | 25 | - | X | - | - | - | 176 | 250 | - | - | - | 140 | - | 200 | 100 | - | - | - | - | - | - |
| 93 | Ammonium, Fluoride | NH ₄ F | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 94 | Ammonium, Hydroxide | NH ₄ OH | 140 | X | 180 | 250 | 150 | - | 176 | 300 | 400 | 150 | 100 | - | X | 200 | 80 | X | A | A | A | - | A |
| 95 | Metaphosphate | - | 140 | 180 | - | - | 140 | 140 | - | 250 | - | 200 | 150 | - | 180 | - | 200 | 200 | - | - | - | - | - |
| 96 | Ammonium, Nitrate | NH ₄ NO ₃ | 140 | 180 | 180 | 160 | 140 | 140 | 176 | 400 | 250 | 230 | 200 | - | 180 | - | 200 | 180 | A | A | A | - | - |
| 97 | Ammonium, Oxalate | (NH ₄) ₂ C ₂ O ₄ | - | - | - | - | 140 | 140 | - | - | - | - | - | - | - | - | - | A | - | - | - | - | - |

| | | | Plastics | | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | | | | | | |
|---|--|---|----------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|------------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|---|---|---|---|---|---|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Virylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C | | | | | | |
| 98 | Ammonium, Persulfate | (NH ₄) ₂ S ₂ O ₈ | - | - | 140 | 150 | 180 | 200 | 140 | 140 | 176 | 150 | - | - | 180 | 73 | 76 | - | 200 | 200 | - | - | X | A | - | - | - | | |
| 99 | Ammonium, Phosphate | NH ₄ H ₂ PO ₄ | - | - | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 250 | 200 | 150 | - | 180 | - | 200 | 200 | A | A | A | - | - | - | - | - | |
| 100 | Ammonium, Phosphate Dibasic | (NH ₄) ₂ HPO ₄ | - | - | 140 | 180 | 180 | 250 | 140 | 140 | - | - | 300 | - | 200 | 150 | 180 | 210 | 100 | 100 | A | A | A | - | - | - | - | - | |
| 101 | Ammonium, Phosphate Monobasic | NH ₄ H ₂ PO ₄ | - | - | 140 | 180 | 180 | 250 | 140 | 140 | - | - | - | 350 | 200 | 150 | 190 | 210 | 100 | 100 | A | A | A | - | - | - | A | - | |
| 102 | Ammonium, Phosphate Tribasic | - | - | - | 140 | 180 | 180 | 250 | 140 | 140 | - | - | - | 200 | 150 | - | 190 | 210 | 100 | 100 | A | A | A | - | - | - | A | - | |
| 103 | Ammonium, Salts | - | - | 1.8 | 140 | 180 | 180 | 250 | 140 | 140 | - | - | 350 | 200 | 150 | - | 180 | 210 | 160 | 180 | A | A | B | - | - | - | - | - | |
| 104 | Ammonium, Sulfate | (NH ₄) ₂ SO ₄ | - | 1.8 | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | - | 350 | 200 | 150 | 180 | 210 | 160 | 140 | A | A | B | - | - | - | A | - | |
| 105 | Ammonium, Sulfide | (NH ₄) ₂ S | - | 1.3 | 140 | 180 | 180 | 250 | 140 | 140 | - | 250 | - | 350 | 200 | 150 | - | 210 | 160 | 140 | - | - | B | - | - | - | - | - | |
| 106 | Ammonium, Thiocyanate | NH ₄ SCN | - | 1.3 | 140 | 180 | - | 280 | 140 | 140 | 176 | - | - | 300 | 150 | 100 | 200 | 180 | 140 | 150 | - | - | A | - | - | A | - | - | |
| 107 | Ammonium, Thiosulfate | (NH ₄) ₂ S ₂ O ₃ | - | 0.86 | 140 | 180 | - | 250 | 140 | 140 | - | - | - | 300 | 150 | 100 | 200 | 180 | 140 | 150 | A | A | A | - | - | - | - | - | |
| 108 | Amyl, Acetate | CH ₃ COOC ₃ H ₇ | - | 0.86 | X | X | X | 180 | X | X | X | 150 | 400 | 140 | 100 | X | X | 70 | X | X | A | A | A | A | A | A | A | A | |
| 109 | Amyl, Alcohol (See Alcohol Amyl) | - | - | 0.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 110 | Amyl Bromate | - | - | - | - | - | - | - | - | - | - | - | - | 250 | - | - | X | X | - | 70 | - | - | - | - | - | - | - | - | |
| 111 | Amyl Bromide | - | - | 0.8 | - | - | - | 250 | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 112 | Amyl Chloride | - | - | 1.02 | X | X | X | 240 | X | X | X | 250 | - | 100 | X | X | 68 | X | X | X | A | A | B | B | B | B | B | B | |
| 113 | Aniline | C ₆ H ₅ NH ₂ | - | 1.02 | X | X | 100 | 200 | X | 70 | X | 121 | 400 | 250 | X | X | 140 | 70 | X | X | A | A | A | - | - | - | - | - | |
| 114 | Aniline Chlorohydrate | - | - | - | X | X | - | 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 115 | Aniline Hydrochloride | C ₆ H ₅ NH ₂ HCL | 20 | - | X | X | 100 | 140 | - | - | - | - | 400 | X | 140 | - | 180 | - | - | - | - | - | X | X | A | X | - | - | |
| 116 | Anisole | C ₂ H ₅ OCH ₃ | - | 1 | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 117 | Acid | - | - | - | 100 | 180 | X | 240 | 100 | - | X | 150 | 400 | - | - | - | 180 | - | - | - | - | - | - | - | - | - | - | - | |
| 118 | Anti-Freeze (See Ethylene Glycol) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 119 | Benzol (see Benzene) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | Anti-Freeze (See Ethylene Glycol) | | | | 140 | 180 | 180 | 180 | - | - | - | - | - | 300 | - | - | 250 | 210 | 160 | 180 | - | - | A | - | - | - | - | A | |
| 121 | Antichlor | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 122 | Antimony Chloride (See Antimony Trichloride) | - | - | 3.1 | 140 | 180 | 180 | 100 | 140 | 140 | - | 73 | 400 | 250 | 220 | - | 190 | 140 | 140 | 140 | - | - | - | - | - | - | - | - | |
| 123 | Antimony Pentachloride | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 150 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 124 | Antimony Trichloride | SbCl ₃ | - | - | 140 | 180 | 180 | 100 | 140 | 140 | - | - | - | 250 | 200 | - | 190 | 140 | 140 | 140 | - | - | X | X | - | - | - | - | |
| 125 | Aqua Ammonia (See Ammonia Hydroxide) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 126 | Aqua Regia | HNO ₃ | 20 | - | X | X | X | 200 | X | X | X | 250 | 380 | X | X | 150 | 140 | X | X | X | - | X | X | - | - | - | - | - | C |
| 127 | Aqua Regia | HCL | 80 | - | X | X | X | 200 | X | X | X | 250 | 380 | X | X | 150 | 140 | X | X | X | - | X | X | - | - | - | - | - | C |
| 128 | Aroclor 1248 | - | - | - | - | - | - | - | - | - | - | - | 300 | - | - | - | - | - | - | - | A | - | - | - | - | - | - | - | |
| 129 | Aromatic Hydrocarbons | - | - | - | X | X | 68 | 40 | - | - | X | - | - | 250 | - | - | 180 | X | X | X | A | - | - | - | - | - | - | - | |
| 130 | Arsenic Acid | H ₃ AsO ₄ | 80 | - | 100 | 180 | 140 | 210 | 140 | 140 | - | 250 | - | 250 | 180 | - | 210 | 150 | 160 | 160 | A | A | A | A | A | A | A | A | |
| 131 | Aryl Sulfonic Acid | - | - | - | X | X | X | X | - | - | X | - | - | - | - | - | 180 | - | - | - | - | - | - | - | - | - | - | - | |
| 132 | Asphalt | - | - | - | X | X | 140 | 250 | - | - | X | - | - | 250 | - | - | 180 | X | X | 70 | - | A | A | - | - | - | - | - | |
| 133 | Aviation Fuel | - | - | - | - | - | - | - | - | - | - | - | - | 250 | - | 160 | X | X | 150 | - | - | - | - | - | - | - | - | - | |
| 134 | Aviation Turbine Fuel | - | - | - | - | - | - | - | - | X | - | 250 | 180 | 50 | 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 135 | Baking Soda (See Sodium Bicarbonate) | - | - | - | 140 | 190 | 180 | 250 | 140 | 140 | - | 250 | - | 400 | 200 | 180 | 300 | 250 | 160 | 200 | - | - | A | - | - | - | - | A | |
| 136 | Barium Acetate | - | - | - | - | - | - | 140 | 140 | - | - | - | - | 180 | 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 137 | Barium Carbonate | BaCO ₃ | - | 4.3 | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | 240 | 200 | 200 | 200 | 250 | 160 | 200 | - | - | B | - | - | - | - | - | |
| 138 | Barium Chloride | BaCl ₂ | - | 3.1 | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | - | 200 | 200 | 300 | 250 | 160 | 200 | - | - | B | - | - | - | - | - | |
| 139 | Barium Cyanide | Ba(CN) ₂ | - | - | - | - | - | 140 | 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 140 | Barium Hydrate | Ba(OH) ₂ | - | - | - | - | - | 140 | 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 141 | Barium Hydroxide | Ba(OH) ₂ | - | 2.2 | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | - | 200 | 150 | 200 | 200 | 140 | 200 | A | A | A | - | - | - | - | - | |
| 142 | Barium Nitrate | Ba(NO ₃) ₂ | - | - | 80 | 180 | 140 | 250 | 140 | 140 | 176 | 73 | 400 | 250 | - | - | 300 | 200 | 140 | 200 | A | A | A | - | - | - | - | - | |

| | | | Plastics | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | |
|---|---|--|----------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|-------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Vinylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C |
| 192 | Butyl Mercaptan | C ₄ H ₉ SH | - | - | - | 230 | - | X | - | 350 | - | - | - | - | - | - | - | - | - | - | A | - | - |
| 193 | Butyl Phenol | - | X | X | X | 210 | - | X | 250 | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 194 | Butyl Phthalate | - | X | X | 100 | 180 | - | X | - | 200 | - | - | X | - | - | X | - | - | - | - | - | - | - |
| 195 | Butyl Stearate | - | - | - | - | 250 | - | - | 73 | 250 | - | - | 190 | 100 | X | 100 | - | - | - | A | - | - | - |
| 196 | Butylene (Liquified Petroleum Gas) | - | - | - | X | 250 | - | - | - | 250 | - | - | 140 | X | X | 100 | - | A | - | A | - | - | - |
| 197 | Butyraldehyde | - | - | - | - | - | - | X | - | 150 | - | X | X | X | X | - | - | - | - | A | - | - | A |
| 198 | Butyric Acid | - | X | 100 | 180 | 220 | X | X | 250 | - | 200 | 180 | 70 | X | X | X | - | X | - | B | - | A | A |
| 199 | Cadmium Cyanide | Cd(CN) ₂ | - | - | - | 140 | 140 | - | 150 | - | - | - | - | - | 70 | - | - | - | - | - | - | - | - |
| 200 | Cadmium Salts | - | - | - | - | 140 | 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 201 | Caffeine Citrate | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 202 | Calamine | - | 3.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 203 | Calcium Acetate | - | - | - | 140 | 180 | 180 | 250 | 140 | 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 204 | Calcium Bisulfide | Ca(HS) ₂ | - | - | 120 | 160 | 200 | 210 | 140 | X | - | 250 | 400 | - | - | 180 | X | 100 | 140 | - | A | A | B |
| 205 | Calcium Bisulfite | Ca(HSO ₃) ₂ | - | - | 100 | 140 | 200 | 210 | - | - | - | 250 | 210 | 270 | 200 | 180 | X | 100 | 100 | - | A | - | - |
| 206 | Calcium Carbonate | CaCO ₃ | - | 2.7 | 140 | 200 | 200 | 250 | 140 | - | 176 | 250 | 300 | - | 200 | 180 | 140 | 100 | 100 | - | A | A | A |
| 207 | Calcium Chlorate | Ca(CLO ₃) ₂ | - | 2.7 | 140 | 180 | 200 | 250 | 140 | - | 176 | 250 | 400 | 200 | 200 | 180 | 140 | 73 | 73 | - | A | - | B |
| 208 | Calcium Chloride | CaCl ₂ | - | 2.1 | 140 | 200 | 200 | 250 | 140 | 140 | 176 | 250 | 350 | 270 | 200 | 180 | 200 | 150 | 100 | - | A | A | B |
| 209 | Calcium Cyanide | CaCN ₂ | - | - | - | - | - | 140 | 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | Calcium Hydroxide | Ca(OH) ₂ | - | 2.3 | 140 | 180 | 210 | 250 | 140 | - | 176 | 250 | 400 | 100 | 180 | 200 | 180 | 70 | 140 | - | A | A | A |
| 211 | Calcium Hypochlorite | Ca(OCL) ₂ | - | 2.3 | 140 | 180 | 180 | 200 | 140 | 140 | 100 | 250 | 380 | 150 | 200 | 180 | 100 | X | X | - | A | A | B |
| 212 | Calcium Nitrate | Ca(NO ₃) ₂ | - | 1.82 | 140 | 180 | 180 | 250 | 140 | 140 | 140 | 250 | 400 | 250 | 200 | - | 210 | 180 | 100 | 180 | - | - | - |
| 213 | Calcium Oxide | CaO | - | - | 140 | 180 | 180 | 250 | 140 | - | 150 | 250 | 400 | - | - | - | 210 | 160 | 180 | - | A | - | - |
| 214 | Calcium Phosphate | CaH ₄ (PO ₄) ₂ | - | 2.3 | - | - | - | - | 140 | 140 | - | - | - | 150 | - | - | - | - | - | - | - | - | - |
| 215 | Calcium Sulfate | CaSO ₄ | - | 2.9 | 140 | 180 | 180 | 210 | 140 | 140 | 150 | 250 | 400 | 250 | 200 | - | 200 | 210 | 150 | 180 | A | A | A |
| 216 | Calcium Sulfide | CaS | - | - | 140 | 140 | 180 | 180 | 140 | 140 | - | - | 400 | 200 | 200 | - | 200 | 150 | 100 | 150 | - | - | - |
| 217 | Calcium Thiosulfate | CaS ₂ O ₃ | - | 1.87 | - | - | - | - | 140 | 140 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 218 | Calgon (Sodium Hexametaphosphate) | - | - | - | - | - | - | 140 | 140 | - | - | - | - | - | - | - | - | - | - | A | A | - | - |
| 219 | Cane Sugar Liquors | - | - | - | 140 | 180 | 140 | 250 | 140 | - | 150 | 150 | 350 | - | - | - | 200 | 250 | 150 | 150 | A | A | A |
| 220 | Acid | CH ₃ (CH ₂) ₆ COOH | - | - | 140 | 180 | 150 | 220 | - | - | X | 150 | 350 | X | 200 | - | - | - | - | - | A | A | - |
| 221 | Carbinol (see Alcohol, Methyl) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 222 | Carbolic Acid (see Phenol) | - | - | 1.07 | - | - | - | 120 | 70 | 70 | X | - | - | 100 | - | - | 200 | 73 | X | X | - | - | A |
| 223 | Carbon Bisulfide (see Carbon Disulfide) | CS ₂ | - | - | X | X | X | 68 | X | X | X | 73 | 400 | 73 | X | - | 180 | X | X | X | A | A | A |
| 224 | Carbon Dioxide (wet or dry) | CO ₂ | - | - | 140 | 180 | 180 | 250 | 140 | 140 | 90 | 250 | 350 | 200 | 200 | - | 210 | 170 | 150 | 180 | - | - | A |
| 225 | Carbon Disulfide | CS ₂ | - | - | X | X | X | 68 | X | X | X | 73 | 400 | 73 | X | - | 180 | X | X | X | A | B | A |
| 226 | Carbon Monoxide | CO | - | - | 140 | 180 | 180 | 250 | 140 | 140 | 140 | 150 | 400 | 200 | 200 | - | 180 | - | 200 | 180 | A | A | A |
| 227 | Carbon Tetrachloride | CCL ₄ | - | 1.6 | X | X | X | 140 | X | X | X | 250 | 350 | 150 | - | - | 190 | X | X | X | A | A | A |
| 228 | Carbonic Acid | H ₂ CO ₂ | - | - | 140 | 210 | 210 | 250 | 140 | 140 | - | 250 | 350 | 180 | 140 | - | 200 | 210 | 79 | 180 | A | A | A |
| 229 | Casein | - | - | - | - | 50 | - | - | - | - | 250 | - | - | - | 180 | 180 | - | - | - | - | - | - | - |
| 230 | Castor Oil | - | - | 0.95 | 140 | * | 150 | 250 | 140 | 140 | 140 | 250 | 350 | 220 | 200 | - | 140 | 140 | 100 | 140 | - | - | A |
| 231 | Catsup | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A |
| 232 | Caustic Lime -Calcium Hydroxide | Ca(OH) ₂ | - | - | 140 | 180 | 200 | 250 | - | - | 176 | 250 | 250 | 100 | 180 | - | 210 | 210 | 70 | 140 | A | A | A |
| 233 | Caustic Potash (Potassium Hydroxide) | KOH | - | 2.04 | 140 | 180 | 200 | 140 | - | - | - | - | 200 | 180 | 150 | - | X | 200 | 150 | 70 | - | - | A |
| 234 | Caustic Soda (Sodium Hydroxide) | NaOH | - | 2.13 | 140 | 180 | 200 | 100 | X | 140 | - | - | 250 | 120 | 100 | - | X | 200 | 140 | 180 | - | - | A |
| 235 | Cellosolve (see Butyl Cellosolve) | - | - | - | X | X | 100 | 200 | - | - | X | 73 | 400 | - | - | - | X | 140 | X | X | - | - | A |
| 236 | Cetyl Alcohol | C ₁₈ H ₃₃ OH | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | Plastics | | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | |
|---|--------------------------------------|--|----------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|------------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|---|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | Approximate sp. Gravity @100% Concentration % Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Vinylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C | |
| 287 | Cupric Fluoride | CuF ₂ | 140 | - | 180 | 250 | - | 176 | - | 250 | 250 | - | - | 200 | 210 | - | - | - | - | - | - | - | - | - |
| 288 | Cupric Nitrate | Cu(NO ₃) ₂ | 140 | 170 | 180 | 250 | 140 | - | 176 | - | - | - | - | 200 | 210 | 160 | 180 | - | A | - | - | - | - | - |
| 289 | Cupric Salts | - | 140 | 170 | 150 | 250 | - | - | - | - | - | - | - | 200 | 210 | - | 180 | - | A | - | - | - | - | - |
| | Cupric Sulfate (see Copper Sulfate) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 290 | CuSO ₄ | - | 140 | 180 | 180 | 210 | 140 | 140 | 176 | 250 | 400 | 220 | 200 | - | 210 | 200 | 140 | 140 | - | A | A | - | - | - |
| 291 | Cutting Oil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 292 | Acid | HN=C=O | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | A | A | - | - | - |
| 293 | Cyclohexane | - | X | X | X | 210 | X | X | 250 | 400 | 150 | 120 | - | 180 | X | X | X | A | A | A | A | - | - | - |
| 294 | Cyclohexanol | C ₆ H ₁₂ | 0.94 | X | X | 100 | 210 | 140 | X | 121 | 400 | 150 | - | 180 | - | - | - | - | - | - | - | - | - | - |
| 295 | Cyclohexanone | C ₆ H ₁₀ O | 0.95 | X | X | X | 100 | X | X | 121 | 400 | X | 100 | - | X | X | - | X | - | - | - | - | - | - |
| 296 | Decalin | C ₁₀ H ₁₈ | - | X | X | 180 | 250 | - | X | - | - | - | - | 73 | X | X | X | - | - | - | - | - | - | - |
| 297 | Decanal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 298 | Decane | CH ₃ (CH ₂) ₈ CH ₃ | - | - | - | 250 | - | - | - | 250 | - | - | - | 100 | X | X | X | - | - | - | - | - | - | - |
| 299 | Detergents | - | 140 | 180 | 180 | 250 | X | 140 | - | 250 | 400 | 180 | 150 | - | 210 | 200 | 160 | 180 | A | A | - | A | - | - |
| 300 | Detergents, Heavy Duty | - | 140 | 180 | 150 | 150 | X | 140 | - | 250 | 400 | 180 | 150 | - | 180 | - | - | 180 | A | A | - | - | - | - |
| 301 | Developers (Photo) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 302 | Dextrin, Starch Gum | - | 140 | 200 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | - | - | 210 | 200 | 200 | 180 | - | - | - | - | A | - | - |
| 303 | Dextrose (Glucose) | - | 140 | 200 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | - | - | 210 | 200 | 70 | 180 | - | - | - | - | A | - | - |
| 304 | Diacetone Alcohol | - | X | X | 100 | 100 | - | - | 121 | 350 | - | - | - | X | 70 | X | X | - | - | - | - | A | - | A |
| 305 | Diallyl Phthalate | - | - | - | - | - | - | X | - | - | 180 | 180 | - | - | - | - | - | - | - | - | - | - | - | - |
| 306 | Diazo Salts | - | 140 | 190 | 180 | 240 | 140 | 140 | - | 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 307 | Dibenzyl Ether | - | X | X | X | 100 | - | X | - | - | - | - | - | - | X | X | - | - | - | - | - | - | - | - |
| 308 | Dibutylamine | (C ₄ H ₉) ₂ NH | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 309 | Dibutyl Ether | - | - | - | - | 100 | - | X | 73 | 350 | - | - | - | X | X | X | 68 | - | - | - | - | - | - | - |
| 310 | Dibutyl Phthalate | C ₁₆ H ₃₄ (COOC ₄ H ₉) ₂ | - | X | X | 73 | 150 | - | X | 73 | 350 | 180 | 180 | - | X | 70 | X | X | - | - | - | A | - | - |
| 311 | Dibutyl Sebacate | - | - | - | - | - | - | X | 212 | - | - | - | - | X | - | - | - | - | - | - | - | - | - | - |
| 312 | Dicalcium Phosphate | CaHPO ₄ | - | - | - | - | - | - | - | - | 150 | 120 | - | - | - | - | - | - | - | - | - | - | - | - |
| 313 | Dichloroethane (ethylene dichloride) | C1CH2CH2CL | - | X | X | X | 210 | X | X | 73 | 400 | - | - | 150 | - | X | - | C | A | - | A | - | - | - |
| 314 | Dichlorobenzene | C ₆ H ₄ CL ₂ | - | X | X | 100 | 140 | - | X | 121 | 350 | 120 | X | - | 150 | X | X | X | - | - | - | B | - | - |
| 315 | Dichloroethylene | CLHC:CHCL | 1.25 | X | X | X | 120 | - | X | 73 | 350 | - | - | 190 | X | X | X | - | - | - | - | - | - | - |
| 316 | Dichloroisopropyl (Ether) | - | - | X | X | X | 100 | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 317 | Dichloromethane | CH ₂ CL ₂ | - | X | X | X | 100 | - | X | - | - | - | - | - | X | X | X | A | A | - | - | - | - | - |
| 318 | Diesel Fuel | - | 72 | 72 | 100 | 250 | - | 70 | X | 250 | 400 | 250 | 150 | - | 190 | X | X | 100 | A | A | - | - | - | - |
| 319 | Diethanolamine | - | 1.1 | X | X | - | - | - | 104 | - | 100 | X | X | - | - | - | 70 | - | - | - | - | - | - | - |
| 320 | Diethyl Cellosolve | - | - | - | 80 | 280 | - | X | 250 | - | - | - | - | 200 | X | 100 | 140 | - | - | A | - | - | - | - |
| 321 | Diethylether (Ether) | (C ₂ H ₅) ₂ O | - | X | X | 100 | 100 | 73 | - | X | 73 | 400 | 100 | X | - | X | X | X | - | - | - | - | - | - |
| 322 | Diethyl Ketone | C ₂ H ₅ COC ₂ H ₅ | - | X | X | - | - | - | X | - | - | - | X | - | X | - | X | 200 | - | - | - | - | - | - |
| 323 | Diethyl Oxide (Ether) | (C ₂ H ₅) ₂ O | - | - | - | - | - | - | X | 73 | - | - | - | X | X | X | X | - | - | - | - | - | - | - |
| 324 | Diethylamine | (C ₂ H ₅) ₂ NH | - | X | X | 100 | 100 | - | X | 73 | 400 | - | - | X | 120 | X | X | - | - | - | - | A | - | - |
| 325 | Diethylbenzene | C ₆ H ₄ (C ₂ H ₅) ₂ | - | X | X | X | - | - | X | - | - | - | - | 150 | X | X | X | - | - | - | - | A | - | - |
| 326 | Diethylene Glycol | - | 140 | 200 | 180 | 280 | - | X | - | 350 | 200 | 180 | - | 200 | - | 150 | 140 | A | A | - | A | A | - | - |
| 327 | Diethylenetriamine | - | - | - | 80 | 100 | - | - | - | 400 | X | X | - | - | - | - | - | - | - | - | - | - | - | - |
| 328 | Diglycolic Acid | O(CH ₂ COOH) ₂ | - | 140 | 190 | 100 | 80 | - | - | 73 | 400 | - | - | - | - | - | - | - | - | - | - | A | - | - |
| 329 | Dimethyl Phthalate | - | - | X | X | X | 68 | - | X | 212 | - | 100 | 100 | - | 200 | - | - | - | - | - | - | - | - | - |
| 330 | Disobutyl Ketone | - | - | X | X | - | 140 | - | X | - | - | - | - | X | X | - | 70 | - | - | - | - | - | - | - |
| 331 | Diisobutylene | C ₈ H ₁₆ | - | - | - | 180 | - | - | - | 250 | - | - | - | 140 | X | - | - | - | - | - | - | A | - | - |
| 332 | Diisooctyl Phthalate | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 333 | Disopropyl Ketone | - | - | - | 68 | - | - | - | 73 | 70 | - | - | - | X | 70 | - | - | - | - | - | - | - | - | - |
| 334 | Dimethylbenzene | C ₆ H ₄ (CH ₃) ₂ | - | X | X | X | 140 | - | X | - | 250 | - | - | 100 | X | X | X | - | - | - | - | - | - | - |
| 335 | Dimethyl Ether | CH ₃ OCH ₃ | 0.66 | X | X | - | - | - | X | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - |
| 336 | Dimethylformamide | HCON(CH ₃) ₂ | 10 | 0.95 | X | X | 120 | X | 100 | - | X | - | - | X | - | - | - | - | - | - | - | A | - | - |

| | | | Plastics | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | |
|---|--------------------------------------|---|----------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|-------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Vinylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C |
| 337 | Dimethyl Ketone (see Acetone) | CH ₃ COCH ₃ | - | X | X | - | - | - | - | - | - | - | - | X | - | X | X | - | - | - | - | - | - |
| 338 | Dimethyl Phthalate | C ₆ H ₄ (COOCH ₃) ₂ | - | X | X | 100 | 100 | - | - | X | 73 | 350 | 100 | 100 | - | 200 | - | X | X | - | - | A | - |
| 339 | Dimethylamine | (CH ₃) ₂ NH | - | X | X | - | - | - | - | X | 73 | - | X | X | - | X | X | - | - | - | - | - | - |
| 340 | Diocyl Phthalate | - | - | X | X | X | 73 | X | X | X | 73 | - | - | - | - | X | X | - | - | - | - | A | - |
| 341 | Dioxane | - | - | X | X | 73 | X | 73 | - | X | 150 | 350 | - | - | - | X | - | X | X | - | - | A | A |
| 342 | Dioxolane | - | - | 1.07 | - | - | - | - | - | - | - | - | - | X | X | - | - | - | - | - | - | - | - |
| 343 | Diphenyl (Dowtherm) | - | - | 1 | - | - | - | - | - | X | - | 350 | 120 | 120 | - | 300 | X | 150 | X | - | - | - | - |
| 344 | Diphenyl Ether (see Diphenyl Oxide) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 345 | Diphenyl Oxide | (C ₆ H ₅) ₂ O | - | - | - | - | - | - | X | - | - | 120 | - | - | 100 | X | X | X | A | A | - | A | - |
| 346 | Dipropylene Glycol | - | - | 1.25 | 140 | 180 | 120 | 280 | - | X | - | - | 200 | 150 | - | 250 | 210 | 160 | 180 | A | A | - | A |
| 347 | Disodium Methylarsenate | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 348 | Disodium Phosphate | - | - | - | 140 | 180 | 180 | 180 | 140 | 140 | - | 300 | 350 | - | - | 80 | 210 | 80 | 100 | - | - | A | - |
| 349 | Distilled Water | HOH | - | - | 140 | 210 | 180 | 250 | 140 | 140 | 176 | 300 | 350 | 250 | 200 | - | 250 | 250 | 180 | - | - | A | - |
| 350 | Divinylbenzene | - | - | - | X | X | X | X | - | X | 73 | - | - | - | - | - | - | - | - | - | - | - | - |
| 351 | Dolomite | CaMg(CO ₃) ₂ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 352 | Dowtherm (See Diphenyl) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 353 | Dry Cleaning Solvents | - | - | - | X | X | 73 | 250 | X | X | - | - | 350 | 120 | X | - | 200 | X | X | X | - | - | A |
| 354 | Epichlorohydrin | - | - | - | X | X | 80 | 220 | - | X | - | 350 | - | - | - | X | X | - | X | - | - | - | A |
| 355 | Epsom Salts | MgSO ₄ | - | - | 140 | 200 | 180 | 280 | 140 | 140 | 176 | 250 | 300 | 270 | 200 | - | 200 | 180 | 160 | 180 | 140 | - | A |
| 356 | Esters (General) | - | - | - | X | X | X | 100 | - | - | - | 350 | 100 | - | - | - | - | - | - | - | - | - | - |
| 357 | Ethane | C ₂ H ₆ | - | - | 73 | 73 | X | 280 | - | - | - | 350 | - | - | - | X | - | - | - | - | - | - | A |
| 358 | Ethanol (see Alcohol, Ethyl) | C ₂ H ₅ OH | - | 0.82 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 359 | Ethanolamine | - | - | 1.02 | X | X | X | X | - | - | - | 100 | - | - | - | 100 | - | 68 | - | - | - | - | A |
| 360 | Ethers | - | - | - | X | X | X | 100 | - | - | - | 350 | - | - | - | X | X | X | X | - | - | A | A |
| 361 | Ethyl Acetate | CH ₃ COOL ₂ H ₅ | - | - | X | X | 100 | 100 | X | X | X | 121 | 350 | 150 | X | - | X | 70 | X | X | A | A | A |
| 362 | Ethyl Acetoacetate | - | - | - | X | X | - | 120 | - | - | X | 73 | 350 | - | - | - | X | - | - | - | - | - | |
| 363 | Ethyl Acrylate | - | - | - | X | X | 73 | 120 | - | - | X | 121 | 350 | - | - | - | X | - | X | - | - | - | C |
| 364 | Ethyl Alcohol | C ₂ H ₅ OH | - | 0.8 | 140 | 180 | 180 | 250 | 120 | 140 | X | 250 | 300 | 180 | 80 | - | 180 | 170 | 70 | 180 | - | - | A |
| 365 | Ethylbenzene | C ₆ H ₅ C ₂ H ₅ | - | - | X | X | X | 140 | - | - | X | - | 300 | - | - | 70 | X | X | X | - | - | - | - |
| 366 | Ethyl Bromide | C ₂ H ₅ BR | - | - | X | X | X | 180 | X | X | X | - | 350 | - | - | - | 70 | 70 | - | - | - | - | A |
| 367 | Ethyl Butyrate | C ₃ H ₇ CO ₂ C ₂ H ₅ | - | - | X | X | - | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | |
| 368 | Ethyl Cellosolve | - | - | - | - | - | - | - | - | X | - | - | 150 | X | - | - | - | - | - | - | - | - | |
| 369 | Ethyl Chloride (Chloroethane) | C ₂ H ₅ CL | - | 0.92 | X | X | X | 250 | X | X | X | 250 | 350 | X | X | - | 140 | 70 | 70 | X | A | A | A |
| 370 | Ethyl Ether | (C ₂ H ₅) ₂ O | - | - | X | X | X | 100 | X | X | X | 121 | 200 | 100 | X | - | X | X | X | - | - | A | A |
| 371 | Ethyl Formate | HCOOC ₂ H ₅ | - | - | X | X | X | X | - | - | X | 73 | 200 | - | - | - | X | 70 | - | X | - | - | - |
| 372 | Ethyl Hexanol | - | - | - | - | - | 250 | - | - | - | - | 250 | - | - | - | X | X | - | - | - | - | - | |
| 373 | Ethyl Sulfate | (C ₂ H ₅) ₂ SO ₄ | - | - | - | - | - | - | - | - | - | - | - | X | - | - | X | - | - | - | - | X | |
| 374 | Ethylcellulose | - | - | - | - | - | - | - | - | - | 176 | - | - | - | - | - | - | - | - | - | - | - | |
| 375 | Ethylene Bromide | (CH ₂) ₂ Br ₂ | - | - | X | X | X | 150 | X | X | X | 250 | 400 | - | - | 73 | X | X | X | - | - | A | A |
| 376 | Ethylene Chlorohydrin | (CH ₂) ₂ ClOH | - | - | X | X | 140 | 150 | X | X | X | 73 | - | 150 | 100 | - | 150 | - | - | X | - | - | - |
| 377 | Ethylene Diamine | (CH ₂) ₂ (NH ₂) ₂ | - | - | X | X | 190 | 90 | 100 | - | - | 73 | 350 | X | X | - | 150 | - | 80 | 150 | - | - | A |
| 378 | Ethylene Dichloride (Dichloroethane) | CLCH ₂ CH ₂ CL | - | 1.25 | X | X | X | 200 | X | X | X | 73 | - | 120 | X | - | 150 | X | X | X | C | A | A |
| 379 | Ethylene Glycol | CH ₂ OHCH ₂ OH | - | 1.12 | 140 | X | 180 | 200 | 140 | 140 | 176 | 250 | 400 | 200 | 200 | - | 300 | 180 | 150 | 200 | - | - | A |
| 380 | Ethylene Oxide | (CH ₂) ₂ O | - | 0.9 | X | X | X | 200 | 70 | 70 | X | 250 | 400 | X | X | - | X | X | X | - | - | - | |
| 381 | Fatty Acids | - | - | - | 140 | 140 | 140 | 250 | X | 140 | - | 250 | 250 | 230 | 200 | - | 180 | X | - | - | - | - | |
| 382 | Ferric Acetate (Iron Acetate, Basic) | Fe(C ₂ H ₃ O ₂) ₂ OH | - | - | - | - | 140 | 140 | - | - | - | 200 | 180 | - | X | - | - | - | - | - | - | - | |
| 383 | Ferric Chloride | FeCl ₃ | - | 2.9 | 140 | 190 | 180 | 250 | 140 | 140 | X | 250 | 400 | 220 | 200 | - | 210 | 200 | 160 | 180 | A | A | X |
| 384 | Ferric Hydroxide | Fe(OH) ₃ | - | - | 140 | 180 | 180 | - | 140 | - | - | 250 | - | - | - | 160 | 180 | 100 | 180 | - | - | - | |

| | | | Plastics | | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | | |
|---|------------------------------------|--|---|------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|-------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|---|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | % Concentration | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Vinylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C | |
| 435 | Heptane | CH ₃ (CH ₂) ₅ CH ₃ | - | 100 | 150 | 73 | 250 | - | X | 250 | 300 | 200 | 180 | - | 340 | X | 200 | 180 | - | - | - | - | - | - | |
| 436 | Hexane | CH ₃ (CH ₂) ₄ CH ₃ | 0.66 | X | 72 | 73 | 250 | X | 70 | X | 250 | 300 | 150 | 120 | - | 340 | X | 80 | 180 | - | - | A | - | - | |
| 437 | Hexene | - | 0.67 | X | X | X | - | - | - | - | 300 | - | - | - | - | X | X | 70 | - | - | A | - | - | - | |
| 438 | Hexyl Alcohol (Hexanol) | C ₆ H ₁₁ OH | - | 140 | 190 | 73 | 180 | - | - | 73 | 250 | - | - | - | 250 | - | X | 140 | - | - | - | - | - | - | |
| 439 | Honey | - | - | 140 | 190 | 180 | 300 | 140 | 140 | - | 400 | - | - | - | 210 | 150 | 140 | 150 | - | - | - | - | - | - | |
| 440 | Hydraulic Oil | - | - | - | - | X | - | - | 70 | - | 300 | 250 | 200 | - | 250 | X | 70 | 160 | - | - | A | - | - | - | |
| 441 | Hydraulic Oil (synthetic) | - | - | - | - | X | - | - | - | - | 300 | 250 | 200 | - | 250 | X | X | X | - | - | - | - | - | - | |
| 442 | Hydrazine | H ₂ NNH ₂ | 1 | X | X | X | 200 | - | 140 | - | 250 | - | - | - | X | 70 | X | 70 | - | - | A | - | - | - | |
| 443 | Hydrobromic Acid | HBr | 48 | 1.5 | 140 | 180 | 180 | 250 | 140 | 140 | - | 250 | 100 | 120 | - | 190 | 140 | X | X | - | - | A | - | - | |
| 444 | Hydrobromic Acid | HBr | 20 | - | 140 | 180 | 180 | 250 | 140 | 140 | - | 250 | 100 | 120 | - | 190 | 140 | X | X | - | B | C | X | - | |
| 445 | Hydrobromic Acid | HBr | 10 | - | 140 | 180 | 180 | 250 | 140 | 140 | - | 400 | 100 | 120 | - | 190 | 140 | X | X | - | - | C | - | - | |
| 446 | Hydrochloric Acid (Dry Gas) | HCL | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 447 | Hydrochloric Acid | HCL | 10 | - | 140 | 180 | 160 | 250 | 140 | 140 | 176 | - | 400 | 150 | 200 | - | 200 | 150 | 80 | X | - | - | X | - | |
| 448 | Hydrochloric Acid | HCL | 20 | - | 140 | 180 | 160 | 250 | 140 | 140 | 176 | - | 400 | 120 | 200 | - | 200 | 100 | 80 | 180 | - | - | X | - | |
| 449 | Hydrochloric Acid | HCL | 25 | - | 140 | 180 | 160 | 250 | 140 | 140 | 104 | - | 400 | X | 150 | - | 200 | 100 | X | X | - | - | X | - | |
| 450 | Hydrochloric Acid (Muriatic Acid) | HCL | 37 | 1.19 | 140 | 180 | 160 | 210 | 140 | 140 | 68 | 212 | 400 | X | 150 | - | 200 | 100 | X | X | A | C | X | X | |
| 451 | Hydrocyanic Acid (Prussic Acid) | HCN | - | - | 140 | 160 | 140 | 250 | 140 | 140 | 120 | - | 400 | - | - | 190 | 200 | X | 200 | A | A | A | A | - | |
| 452 | Hydrocyanic Acid | HF | 10 | - | 140 | 140 | 140 | 250 | 140 | 140 | - | 400 | - | - | 190 | 200 | X | 200 | - | - | A | - | - | - | |
| 453 | Hydrofluoric Acid | HF | 10 | - | 100 | X | 150 | 250 | 70 | 140 | - | 300 | X | - | 150 | 100 | 70 | - | - | - | - | - | - | - | |
| 454 | Hydrofluoric Acid | HF | 20 | - | 100 | X | 150 | 250 | 70 | 140 | - | 300 | X | X | 150 | 100 | 70 | X | B | C | C | - | - | A | |
| 455 | Hydrofluoric Acid | HF | 30 | - | 100 | X | 120 | 250 | 70 | 140 | - | 212 | 300 | X | 200 | 100 | X | X | - | - | C | - | - | A | |
| 456 | Hydrofluoric Acid | HF | 40 | - | 68 | X | 120 | 250 | 70 | 140 | - | 212 | 300 | X | 200 | 70 | X | X | - | - | C | - | - | A | |
| 457 | Hydrofluoric Acid | HF | 50 | - | 68 | X | 100 | 250 | 70 | 140 | - | 212 | 300 | X | 200 | X | X | X | - | - | C | - | - | A | |
| 458 | Hydrofluoric Acid | HF | 65 | - | X | X | 100 | 200 | - | 140 | - | 250 | X | X | 100 | X | X | X | - | - | - | - | - | - | |
| 459 | Hydrofluoric Acid | HF | 75 | 0.99 | X | X | 100 | 200 | - | 140 | - | 250 | X | X | 100 | X | X | X | X | X | X | X | X | - | - |
| 460 | Hydrofluosilicic Acid | H ₂ SiF ₆ | - | - | 73 | 73 | 180 | 250 | 140 | 140 | 176 | 250 | 300 | - | 100 | - | 200 | 140 | X | 170 | - | - | X | - | |
| 461 | Hydrofluosilicic Acid | H ₃ SiF ₆ | 20 | - | 73 | 73 | 180 | 250 | 140 | 140 | 176 | - | 300 | - | 100 | - | 200 | 140 | X | 170 | - | - | X | - | |
| 462 | Hydrogen | H | - | - | 140 | X | 180 | 280 | 140 | 140 | 176 | 250 | 300 | - | - | 200 | 250 | 200 | 180 | - | - | A | - | - | |
| 463 | Hydrogen Chloride Gas Dry | HCL | - | 1.27 | 73 | - | 140 | 180 | 140 | - | - | 300 | 150 | 150 | - | 70 | - | 70 | - | - | - | - | - | - | |
| 464 | Hydrogen Cyanide | HCN | - | - | 140 | 190 | 150 | 280 | - | - | 250 | 300 | - | - | 150 | 100 | 200 | 70 | - | - | A | - | - | - | |
| 465 | Hydrogen Fluoride | HF | - | - | X | X | 73 | 200 | - | - | - | 250 | - | - | 180 | X | X | X | - | - | X | - | - | - | |
| 466 | Hydrogen Peroxide | H ₂ O ₂ | 5 | - | 140 | 160 | 180 | 250 | 140 | 140 | 68 | 73 | 250 | X | 150 | - | 180 | 100 | - | - | - | - | - | - | |
| 467 | Hydrogen Peroxide | H ₂ O ₂ | 10 | - | 140 | 160 | 73 | 250 | 140 | 140 | 68 | - | 250 | X | 150 | - | 180 | 100 | X | X | A | A | C | - | |
| 468 | Hydrogen Peroxide | H ₂ O ₂ | 30 | - | 140 | 73 | X | 250 | 140 | 140 | 68 | - | 250 | X | 150 | - | 200 | 100 | X | X | - | - | - | - | |
| 469 | Hydrogen Peroxide | H ₂ O ₂ | 50 | - | 100 | X | X | 250 | - | - | - | 121 | 250 | X | - | 200 | X | X | X | - | - | - | - | - | |
| 470 | Hydrogen Peroxide | H ₂ O ₂ | 90 | - | X | X | X | 68 | - | - | - | 121 | 400 | X | - | 100 | X | X | X | - | - | - | - | - | |
| 471 | Hydrogen Peroxide | H ₂ O ₂ | - | - | X | X | X | 68 | - | - | - | - | 400 | - | - | 100 | X | X | X | - | - | - | - | - | |
| 472 | Hydrogen Phosphide (see Phosphine) | PH ₃ | - | - | X | 73 | 73 | 70 | 140 | 140 | - | 121 | 400 | - | - | - | - | X | - | - | - | - | - | - | |
| 473 | Hydrogen Sulfide | H ₂ S | - | - | 140 | 190 | 150 | 280 | 140 | 140 | - | - | 400 | 250 | 180 | - | 180 | 100 | X | 100 | - | - | - | A | |
| 474 | Hydrogen Sulfide (Aq Sol) | H ₂ S | - | 1.19 | 140 | 180 | 150 | 200 | 140 | 140 | - | 121 | 400 | 250 | 180 | - | 140 | 100 | X | 100 | A | A | A | A | |
| 475 | Hydrogen Sulfide (dry) | H ₂ S | - | - | 140 | 180 | 150 | 80 | 140 | 140 | - | 250 | 400 | 250 | 180 | - | 180 | 100 | X | 100 | - | A | A | A | |
| 476 | Hydroquinone | C ₆ H ₄ (OH) ₂ | - | - | 140 | 190 | 150 | 250 | 140 | 140 | X | 212 | 400 | - | - | 180 | X | X | 70 | - | - | - | - | - | |
| 477 | Hydroxyacetic Acid (Glycolic Acid) | - | - | 1.27 | 140 | 190 | 150 | 100 | - | - | - | - | 400 | - | - | X | - | X | 70 | - | - | - | - | - | |
| 478 | Hydroxyacetic Acid | CH ₂ OHCOOH | 1 | - | 140 | 190 | 150 | 100 | - | - | - | - | 400 | - | - | X | - | X | 70 | - | - | - | - | - | |
| 479 | Hydroxylamine Sulfate | - | - | - | 140 | 190 | 120 | 150 | - | - | - | - | - | - | - | 70 | 70 | - | - | - | - | - | - | - | |
| 480 | Hypochlorous Acid | (NH ₂ OH) ₂ H ₂ SO ₄ | - | 10 | 140 | 180 | 120 | 250 | 140 | 140 | - | 250 | 400 | - | - | 180 | 70 | X | X | - | - | X | X | B | |
| 481 | Ink | - | - | - | - | - | - | X | 140 | - | - | - | - | - | 70 | 70 | 70 | 70 | - | - | A | - | - | - | |
| 482 | Iodine Solution | I ₂ | 0 | - | X | X | X | 150 | X | X | X | 212 | 400 | 120 | 100 | - | 180 | 70 | X | 70 | - | - | C | - | |

| | | | Plastics | | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | | |
|---|---|--|---|------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|-------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|---|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | % Concentration | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Virylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C | |
| 483 | Isobutyl Alcohol (see Alcohol, Isobutyl) | - | 0.81 | - | - | - | 250 | - | X | - | 300 | - | - | - | 140 | 140 | 70 | 70 | - | - | A | A | A | B | |
| 484 | Isoctane | - | 0.7 | 72 | 72 | 73 | 250 | - | X | 73 | - | - | - | - | 190 | X | 70 | 70 | - | - | A | - | - | - | |
| 485 | Isophorone | - | 0.92 | X | - | 180 | - | X | X | - | - | - | - | - | X | X | - | - | - | - | - | - | - | - | |
| 486 | Isopropanol-see Alcohol, Isopropyl | - | - | 140 | 140 | 140 | 250 | X | 140 | X | 250 | 300 | 180 | 100 | 140 | 140 | 70 | 70 | - | - | A | - | - | - | |
| 487 | Isopropyl Acetate | (CH ₃) ₂ CHOH | - | 0.92 | X | - | - | - | X | - | 200 | - | - | - | X | 70 | X | X | - | - | B | - | - | - | |
| 488 | Isopropyl Alcohol (see Alcohol, Isopropyl) | H ₃ COOCH(CH ₃) | - | 0.78 | 140 | 140 | 140 | 250 | X | 140 | X | 250 | 300 | 180 | 100 | 140 | 200 | 70 | - | - | A | - | - | - | |
| 489 | Isopropyl Chloride (see Chloropropene) | (CH ₃) ₂ CHOH | - | - | - | - | 100 | - | X | - | 210 | - | - | - | 70 | X | X | X | X | - | - | - | - | - | |
| 490 | Isopropyl Ether | CH ₂ CHCLCH ₃ | - | 0.72 | X | X | X | 130 | - | X | 73 | 140 | - | - | X | X | X | 70 | - | - | A | - | - | - | |
| 491 | Jet Fuel JP-3 | - | - | - | - | - | - | - | X | - | 200 | 250 | 180 | - | 190 | X | X | 70 | - | - | A | - | - | - | |
| 492 | Jet Fuel JP-4 | - | - | 140 | 72 | X | 250 | - | X | 250 | 400 | 250 | 180 | - | 300 | X | X | 200 | - | - | A | - | - | - | |
| 493 | Jet Fuel JP-5 | - | - | 140 | 72 | X | 250 | - | X | 250 | 400 | 250 | 180 | - | 300 | X | X | 200 | - | - | A | - | - | - | |
| 494 | Kerosene | - | 0.81 | 140 | 72 | X | 250 | X | 70 | X | 250 | 400 | 250 | 180 | 300 | X | X | 200 | - | - | A | - | - | - | |
| 495 | Ketones | - | - | X | X | 100 | 100 | X | X | X | - | 350 | - | X | X | X | X | X | - | - | A | - | - | - | |
| 496 | Kraft Liquor | - | - | 140 | 190 | 73 | 70 | 140 | - | 100 | - | 400 | - | - | 100 | - | 70 | 70 | - | - | A | - | - | - | |
| 497 | Lacquer | - | - | - | - | - | - | - | - | - | - | - | - | - | X | X | X | X | - | - | A | - | - | - | |
| 498 | Lacquer Thinner | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | X | X | - | - | A | - | - | - | |
| 499 | Lactic Acid (Milk Acid) | - | 1.2 | 100 | 120 | 180 | 140 | X | 140 | 68 | - | 400 | 230 | 200 | 210 | 70 | 70 | X | - | - | A | - | - | - | |
| 500 | Lard | - | - | 140 | 190 | 73 | 250 | - | 140 | - | 250 | - | - | - | 190 | X | 70 | 140 | - | - | A | - | - | - | |
| 501 | Lard Oil | - | - | 140 | 190 | 73 | 48 | - | 140 | - | 250 | 250 | - | - | 190 | X | 70 | 140 | - | - | A | - | - | - | |
| 502 | Latex | - | - | - | - | - | - | - | - | - | - | 220 | 200 | - | 70 | 70 | 100 | 70 | - | - | - | - | - | - | |
| 503 | Lauryl Acid | H ₃ (CH ₂) ₁₀ COO | - | 0.83 | 140 | 190 | 150 | 230 | 140 | - | 140 | 212 | 400 | 220 | 200 | 1 | 100 | - | - | 70 | - | - | - | - | |
| 504 | Lauryl Chloride | C ₁₂ H ₂₅ CL | - | - | 140 | 72 | X | 250 | X | - | 120 | 212 | 400 | - | - | 200 | 140 | - | 70 | - | - | - | - | - | |
| 505 | Lead Acetate (Sugar of Lead) | Pb(C ₂ H ₃ O ₂) ₂ | - | - | 140 | 190 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | 250 | 200 | X | 210 | 160 | 70 | - | - | B | B | A | B |
| 506 | Lead Chloride | PbCL ₂ | - | 5.88 | 140 | 140 | 140 | 250 | - | - | 176 | 250 | 400 | - | - | 210 | 140 | 70 | 100 | - | - | - | - | - | |
| 507 | Lead Nitrate | Pb(NO ₂) ₂ | - | 4.53 | 140 | 180 | 180 | 210 | - | - | 176 | 250 | 400 | 220 | 200 | 210 | 180 | - | - | - | - | - | - | - | |
| 508 | Lead Sulfate | PbSO ₄ | - | 6.39 | 140 | 190 | 150 | 100 | 150 | - | 176 | 250 | 400 | - | - | 80 | 210 | 140 | 200 | - | - | B | - | B | |
| 509 | Lemon Oil | - | - | 72 | 72 | X | 250 | - | - | - | 212 | 400 | - | - | 200 | - | 100 | 140 | A | - | - | - | - | - | |
| 510 | Levulinic Acid | - | - | - | - | - | - | - | - | - | - | 220 | 200 | - | - | - | - | - | - | - | - | - | - | - | |
| 511 | Ligroin (Benzene) | - | - | X | X | X | 200 | - | X | - | 250 | - | - | - | 100 | X | 70 | 100 | - | - | A | - | - | - | |
| 512 | Lime (Calcium Oxide) | CaO | - | - | - | - | - | - | 176 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 513 | Lime-Sulfur Solution | - | - | 140 | 190 | 10 | 150 | - | - | - | 121 | - | - | - | 190 | 210 | 100 | X | - | - | - | - | - | - | |
| 514 | Linoleic Acid (Linolic Acid) | - | 0.91 | 140 | 190 | 73 | 250 | X | - | - | 212 | 400 | - | - | 70 | X | X | 70 | - | - | - | - | - | - | |
| 515 | Linseed Oil (Flaxseed Oil) | - | - | 140 | 190 | 150 | 250 | X | 70 | X | 212 | 400 | 250 | 100 | 250 | 70 | 70 | 180 | - | - | - | - | - | - | |
| 516 | Lithium Bromide | LiBr | - | 3.46 | 140 | 190 | - | 230 | - | - | 121 | 400 | - | - | 200 | - | 200 | 140 | - | - | - | - | - | - | |
| 517 | Lithium Chloride | LiCL | - | - | 140 | 190 | - | 250 | - | - | - | 400 | 230 | 200 | 140 | 100 | - | 70 | - | - | A | - | - | - | |
| 518 | LPG | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 519 | Lubricants | - | - | - | - | - | - | - | - | 250 | - | - | - | - | - | - | - | - | A | A | A | - | - | - | |
| 520 | Lubricating Oil | - | - | 140 | 190 | 73 | 250 | X | X | - | 250 | 350 | 250 | 200 | 180 | X | 70 | 180 | A | A | - | - | - | - | |
| 521 | Lye Solution (see Sodium Hydroxide & Potassium Hydroxide) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 522 | Machine Oil | - | - | 140 | 190 | 120 | 210 | X | - | - | - | 400 | - | - | 140 | - | - | 140 | - | - | A | - | - | - | |
| 523 | Magnesium Acetate | (MgOOCCH ₃) ₂ | - | 1.42 | - | - | - | 140 | 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 524 | Magnesium Carbonate | MgCO ₃ | - | 3 | 140 | 180 | 180 | 210 | 140 | 140 | 176 | 250 | 400 | 220 | 200 | 210 | 170 | 140 | 180 | - | - | A | - | - | |
| 525 | Magnesium Chloride | MgCL ₂ | - | 2.3 | 140 | 190 | 180 | 280 | 140 | 140 | 176 | 250 | 400 | 270 | 200 | 180 | 180 | 170 | 180 | - | - | - | - | - | |
| 526 | Magnesium Citrate | MgHC ₆ H ₅ O ₇ | - | - | 140 | 180 | 180 | 250 | 140 | 140 | - | - | 400 | - | - | 210 | 180 | - | 180 | - | - | - | - | - | |
| 527 | Magnesium Hydroxide (Milk of Magnesia) | Mg(OH) ₂ | - | 2.36 | 140 | 190 | 180 | 250 | 140 | - | 176 | 250 | 400 | 270 | 150 | 230 | 170 | 160 | 180 | A | A | A | A | - | A |
| 528 | Magnesium Nitrate | Mg(NO ₃) ₂ | - | 2.03 | 140 | 190 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | 250 | 200 | 230 | 140 | 160 | 70 | - | A | A | - | - | |

| | | | Plastics | | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | |
|---|---|---|---|------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|-------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | % Concentration | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Vinylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C |
| 529 | Magnesium Oxide | MgO | - | 3.6 | - | - | - | - | 176 | - | - | - | - | - | - | 140 | 160 | 140 | - | A | - | - | - | - |
| 530 | Magnesium Sulfate (Epsom Salts) | MgSO ₄ | - | 2.6 | 140 | 190 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | 270 | 200 | 180 | 160 | 180 | A | A | A | - | - | - |
| 531 | Maleic Acid | - | - | 1.59 | 140 | 190 | 180 | 250 | 70 | 70 | - | 212 | 400 | 220 | 200 | - | 200 | 70 | X | X | A | A | - | - |
| 532 | Maleic Anhydride | - | - | 0.93 | - | - | - | - | - | - | - | - | - | - | - | - | X | X | X | A | A | - | - | - |
| 533 | Malic Acid (Apple Acid) | - | - | 1.6 | 140 | 190 | 73 | 250 | - | - | - | 212 | 400 | - | - | 200 | X | 70 | 100 | - | A | B | B | - |
| 534 | Manganese Sulfate | MnSO ₄ | - | 2.11 | 140 | 180 | 180 | 250 | - | - | - | 212 | 400 | - | - | 230 | 180 | 160 | 140 | - | - | - | - | - |
| 535 | Mash | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 536 | Mayonnaise | - | - | - | - | - | - | - | - | - | - | 400 | - | - | - | - | - | - | 180 | - | - | A | - | - |
| 537 | Melamine (Trizane) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 538 | Mercuric Chloride | HgCl ₂ | - | 5.4 | 140 | 190 | 180 | 250 | 140 | - | X | 212 | 400 | 220 | 200 | - | 190 | 210 | 140 | 140 | - | - | X | - |
| 539 | Mercuric Cyanide | Hg(CN) ₂ | - | 4 | 140 | 180 | 180 | 250 | 140 | - | X | 212 | 400 | - | - | 70 | 70 | 70 | 140 | - | - | A | - | - |
| 540 | Mercuric Nitrate | Hg(NO ₂) ₂ | - | 4.3 | 140 | 180 | 180 | 250 | 140 | - | - | - | - | - | - | 70 | - | 70 | - | - | - | - | - | - |
| 541 | Mercuric Sulfate | HgSO ₄ | - | 6.47 | 140 | 180 | 180 | 230 | - | - | - | 212 | 300 | - | - | 70 | 70 | - | 70 | - | - | - | - | - |
| 542 | Mercurous Chloride | Hg ₂ Cl ₂ | - | 6.99 | - | - | - | - | - | - | - | 212 | 400 | 220 | 200 | - | 200 | 100 | 140 | 100 | - | - | - | - |
| 543 | Mercurous Nitrate | HgNO ₃ | - | 4.79 | 140 | 190 | 120 | 250 | - | - | - | 212 | 400 | - | - | 200 | 100 | 140 | 100 | - | - | - | B | - |
| 544 | Mercury (Quicksilver) | Hg | - | 13.6 | 140 | 190 | 150 | 250 | 140 | 140 | 68 | 250 | 400 | 270 | 200 | - | 200 | 70 | 100 | 100 | - | - | A | A |
| 545 | Methacrylic Acid Glacial | - | - | 1.02 | X | X | - | - | - | - | X | - | X | X | - | - | - | - | - | - | - | - | - | - |
| 546 | Methane (Methyl Hydride) | CH ₄ | - | - | 140 | 72 | 120 | 280 | - | - | - | 212 | 400 | 250 | 200 | - | 300 | X | 200 | 180 | - | - | A | - |
| 547 | Methanesulfonic Acid | CH ₃ SO ₃ H | - | 1.48 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 548 | Methanol (see Alcohol, Methyl) | - | - | 0.8 | 140 | 210 | 180 | 250 | X | 140 | X | 250 | 400 | 150 | - | X | 100 | 140 | 140 | - | - | A | A | - |
| 549 | Methoxyethyl Oleate | - | - | 0.9 | - | - | - | - | - | X | 73 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 550 | Methyl "Cellosolve" | - | - | - | X | X | 73 | 250 | - | X | 212 | 400 | - | - | X | 70 | 70 | X | - | - | A | - | - | - |
| 551 | Methyl Acetate | CH ₃ CO ₂ CH ₃ | - | 0.92 | X | X | 68 | 100 | - | - | X | - | - | - | X | - | X | X | - | - | A | - | - | - |
| 552 | Methyl Acetone | - | - | - | - | - | - | - | X | - | - | - | - | - | X | - | X | X | - | - | A | - | - | - |
| 553 | Methyl Acrylate | - | - | - | - | - | 100 | - | X | - | 300 | - | - | - | X | 70 | X | X | - | - | A | - | - | - |
| 554 | Methyl Alcohol | CH ₃ OH | - | - | 140 | 210 | 180 | 250 | X | 140 | X | 250 | 400 | 150 | - | 100 | 100 | 140 | 140 | A | A | A | - | - |
| 555 | Methyl Benzene (see Toluene) | - | - | - | X | X | X | 180 | - | - | X | - | 350 | - | - | 70 | X | X | X | - | - | A | - | - |
| 556 | Methyl Bromide | CH ₃ Br | - | 1.73 | X | X | X | 250 | X | X | X | 250 | 350 | - | - | 180 | X | X | X | - | - | - | - | - |
| 557 | Methyl Butanol (see Alcohol, Amyl) | - | - | 0.82 | X | 72 | 73 | 250 | X | 140 | - | - | 400 | 200 | 100 | - | 190 | 210 | 140 | 140 | A | A | A | - |
| 558 | Methyl Butyl Ketone | CH ₃ COC ₄ H ₉ | - | 0.83 | X | X | X | 100 | - | - | X | - | 400 | - | - | X | 70 | X | X | A | A | A | - | - |
| 559 | Methyl Chloride (Chloromethane) | CH ₃ Cl | - | - | X | X | X | 250 | X | X | X | 250 | 400 | X | X | - | 150 | X | X | X | - | - | A | A |
| 560 | Methyl Chloroform (Trichloroethane) | - | - | - | X | X | X | 120 | - | - | X | 11 | - | X | X | - | 80 | X | X | X | - | - | A | - |
| 561 | Methyl Ether (see Dimethyl Ether) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 562 | Methyl Ethyl Ketone (MEK) | CH ₃ COC ₂ H ₅ | - | 0.82 | X | X | 73 | X | X | X | X | 121 | - | 100 | X | - | X | 70 | X | X | A | A | - | B |
| 563 | Methyl Formate | HCOOCH ₃ | - | 0.98 | - | - | - | - | - | X | 73 | - | - | - | X | - | 100 | 70 | X | - | - | - | - | - |
| 564 | Methyl Isobutyl Alcohol | - | - | - | - | - | - | - | - | X | - | - | 180 | 120 | - | - | - | - | - | - | - | - | - | - |
| 565 | Methyl Isobutyl Ketone | - | - | 0.8 | X | X | X | X | - | - | X | 73 | 400 | 150 | X | - | X | - | X | X | A | A | A | - |
| 566 | Methyl Isopropyl Ketone | CH ₃ COCH(CH ₃) | - | 0.82 | X | X | X | X | - | - | X | - | 400 | - | - | X | - | X | X | A | A | A | - | - |
| 567 | Methyl Methacrylate | - | - | 0.94 | X | X | X | 100 | - | - | X | 121 | 300 | 100 | X | - | X | X | X | A | A | - | - | - |
| 568 | Methyl Propanol (Methyl Salicylate (Wintergreen Oil)) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 569 | Methyl Sulfate | - | - | - | 72 | 72 | 73 | 70 | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 570 | Methylamine | CH ₃ NH ₂ | - | - | X | X | X | X | - | - | X | 73 | 400 | - | - | 100 | 70 | 70 | X | - | - | A | - | - |
| 571 | Methylene Bromide | CH ₂ Br ₂ | - | 2.47 | X | X | X | 150 | - | - | X | 73 | 350 | - | - | 70 | X | X | X | - | - | - | - | - |
| 572 | Methylene Chloride | CH ₂ Cl ₂ | - | 1.34 | X | X | X | 100 | X | X | X | 73 | 350 | X | X | - | X | X | X | A | A | A | - | - |
| 573 | Methylene Iodine | CH ₂ I ₂ | - | 3.33 | X | X | X | X | 200 | - | - | 73 | 350 | - | - | 200 | - | - | - | - | - | - | - | - |

| | | | Plastics | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | | | | | | | |
|---|---|---|---|-----|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|-------|-------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|---|--|--|--|--|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | % Concentration | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Vinylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C | | | | | |
| 575 | Methylhexane | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| 576 | Methylisobutyl Carbinol | - | - | 72 | 72 | 120 | 150 | - | X | - | 200 | 120 | - | - | 70 | 70 | 70 | - | - | - | - | - | - | - | - | | | | |
| 577 | Methylmethacrylate | - | - | - | - | - | 180 | - | - | - | 150 | 100 | X | - | X | X | X | X | - | - | - | - | - | - | - | | | | |
| 578 | N-Methyl Pyrrolidone | - | - | X | X | X | X | X | X | - | 200 | X | X | - | X | X | X | X | - | - | - | - | A | - | - | | | | |
| 579 | Methylsulfuric Acid | CH ₃ HSO ₄ | 1.35 | 140 | 190 | 120 | 70 | - | - | 121 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| 580 | Milk | - | - | 140 | 190 | 180 | 280 | 140 | 140 | 176 | 212 | 400 | - | - | - | 190 | 190 | 150 | 140 | A | A | A | - | - | - | | | | |
| 581 | Mineral Oil | - | - | 140 | 190 | 72 | 250 | X | 70 | - | 250 | 400 | 270 | 200 | - | 300 | X | 70 | 140 | - | - | A | - | - | - | | | | |
| 582 | Molasses | - | - | 140 | 190 | 180 | 250 | 140 | 140 | 176 | 121 | 400 | - | - | - | 300 | 100 | 150 | 140 | A | A | - | - | - | - | | | | |
| 583 | Monochloroacetic Acid (see Chloroacetic Acid) | - | - | 72 | 72 | 73 | 180 | - | - | X | - | 400 | - | - | X | 70 | X | X | - | - | - | C | - | - | - | | | | |
| 584 | Monochlorobenzene (Chlorobenzene) | C ₆ H ₅ CL | - | X | X | X | 140 | X | X | X | - | 400 | - | - | - | 70 | X | X | X | - | - | A | - | - | - | | | | |
| 585 | Monoethanolamine | HOCH ₂ CH ₂ NH ₂ | - | X | X | 150 | X | - | - | - | - | 100 | - | - | - | 190 | 70 | X | 150 | - | - | - | A | - | - | | | | |
| 586 | Morpholine | C ₁₇ H ₁₉ NO ₃ | 1 | - | - | - | 75 | - | - | - | - | 200 | - | - | - | X | 70 | X | X | - | - | B | - | - | - | | | | |
| 587 | Motor Oil | - | - | 140 | 190 | X | 250 | X | 70 | - | 250 | 250 | - | - | - | 250 | X | - | 180 | - | - | A | - | - | - | | | | |
| 588 | Mustard | - | - | 140 | 190 | 150 | 250 | - | - | - | - | 400 | - | - | - | 150 | 150 | X | 100 | - | - | A | - | - | - | | | | |
| 589 | Naphtha | - | - | 140 | - | 100 | 210 | X | X | X | - | 400 | 230 | 180 | - | 150 | X | X | 140 | - | - | A | - | - | - | | | | |
| 590 | Naphthalene (Tar Camphor) | C ₁₀ H ₈ | 1.15 | X | X | X | 200 | X | X | X | - | 400 | 200 | 200 | - | 170 | X | X | X | - | - | A | - | - | - | | | | |
| 591 | Natural Gas | - | - | 140 | 73 | 73 | 250 | - | - | - | 121 | 300 | - | - | - | 190 | X | 140 | 140 | - | - | A | - | - | - | | | | |
| 592 | Neon | Ne | - | 190 | 140 | 180 | 250 | - | - | - | 176 | - | 300 | - | - | 200 | 190 | 150 | 140 | - | - | A | - | - | - | | | | |
| 593 | Nickel | Ni | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| 594 | Nickel Acetate | - | 1.74 | 180 | 140 | 180 | 210 | 140 | 140 | - | 73 | - | - | - | - | X | 70 | - | 70 | - | - | - | - | - | - | | | | |
| 595 | Nickel Chloride | NiCl ₂ | 3.5 | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | 270 | 200 | - | 210 | 210 | 160 | 180 | - | - | A | - | - | - | | | | |
| 596 | Nickel Cyanide | Ni(CN) ₂ | - | - | - | - | 140 | 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| 597 | Nickel Nitrate | Ni(NO ₃) ₂ | 2.1 | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | 220 | 200 | - | 250 | 210 | 200 | 180 | - | - | - | - | - | - | | | | |
| 598 | Nickel Sulfate | NiSO ₄ | 3.7 | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | - | - | - | 180 | 210 | 200 | 200 | - | - | - | - | - | A | | | | |
| 599 | Nicotine | C ₁₀ H ₁₄ N ₂ | - | 140 | 180 | X | 100 | X | 140 | - | 121 | 400 | - | - | - | - | - | X | X | - | - | A | - | - | - | | | | |
| 600 | Nicotine Acid (see Niacin) | - | 1.47 | 140 | 180 | 73 | 250 | - | - | - | 212 | 400 | - | - | - | 70 | 140 | - | - | - | - | - | - | - | - | | | | |
| 601 | Nitric Acid | HNO ₃ | 10 | - | 140 | 180 | 250 | 100 | 140 | 68 | 250 | 400 | X | 100 | - | 190 | X | X | X | C | B | A | - | - | - | | | | |
| 602 | Nitric Acid | HNO ₃ | 20 | - | 140 | 180 | 140 | 210 | 140 | 140 | X | - | 400 | X | 100 | - | 190 | X | X | X | X | C | - | - | - | | | | |
| 603 | Nitric Acid | HNO ₃ | 30 | - | X | 73 | 120 | 150 | 70 | 70 | X | 212 | 400 | X | - | - | 190 | X | X | X | X | - | - | - | - | | | | |
| 604 | Nitric Acid | HNO ₃ | 40 | - | X | 73 | 73 | 150 | 70 | 70 | X | 212 | 400 | X | - | - | 73 | X | X | X | X | - | - | - | - | | | | |
| 605 | Nitric Acid | HNO ₃ | 50 | - | X | 73 | 73 | 120 | X | X | X | 121 | 350 | X | - | - | 100 | X | X | X | X | - | - | - | - | | | | |
| 606 | Nitric Acid | HNO ₃ | 70 | - | X | X | X | 100 | X | X | X | 121 | 300 | X | - | - | X | X | X | X | X | - | - | - | - | | | | |
| 607 | Nitric Acid Concentrate | HNO ₃ | 1.5 | X | X | X | 73 | X | X | X | - | 300 | X | - | - | X | X | X | X | X | - | - | A | - | - | | | | |
| 608 | Nitric Acid Fuming (Red Nitrobenzene (Oil of Mirbane) | HNO ₃ | - | X | X | X | X | - | - | X | - | 300 | - | - | - | X | - | - | - | - | - | - | - | - | - | | | | |
| 609 | Nitroethane | C ₆ H ₅ NO ₂ | 1.2 | X | X | 73 | 140 | X | X | X | 121 | 400 | - | - | - | 70 | X | X | X | A | - | A | - | - | - | | | | |
| 610 | Nitroethane | CH ₃ CH ₂ NO ₂ | 1.13 | - | - | - | 68 | - | - | X | - | 200 | - | - | - | X | - | X | X | - | - | - | - | - | - | | | | |
| 611 | Nitrogen | N | - | - | - | - | - | - | - | - | 176 | - | - | - | - | 190 | - | 140 | 140 | - | - | A | - | - | - | | | | |
| 612 | Nitrogen Dioxide | NO ₂ | - | - | - | - | 140 | - | - | - | - | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| 613 | Nitrogen Solutions | - | - | - | - | - | - | - | - | - | - | - | 150 | 100 | - | - | - | - | - | - | - | - | - | - | - | | | | |
| 614 | Nitroglycerine | - | 1.6 | X | X | X | 120 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| 615 | Nitromethane | CH ₃ NO ₂ | - | - | - | - | 100 | - | - | - | - | 180 | - | - | - | - | 70 | X | X | - | - | - | - | - | - | | | | |
| 616 | Nitrous Oxide | N ₂ O | - | - | 100 | 140 | X | X | X | - | 121 | 400 | - | - | - | 80 | - | X | X | - | - | A | - | - | - | | | | |
| 617 | Ocenol (Oleyl Alcohol) | - | 140 | 100 | 140 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| 618 | Octane | C ₈ H ₁₈ | - | X | X | X | 250 | 73 | - | - | - | 400 | - | - | - | 68 | X | - | 70 | - | - | A | - | - | - | | | | |
| 619 | Octanoic (Caprylic Acid) | CH ₃ (CH ₂) ₆ COOH | 0.91 | - | - | - | 250 | - | - | X | - | 400 | - | - | - | - | - | X | - | - | A | - | - | - | - | | | | |
| 620 | Octylamine | CH ₃ (CH ₂) ₇ NH ₂ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| 621 | Oils | - | - | 140 | 190 | 120 | 250 | 140 | - | 140 | - | 400 | - | 200 | - | - | - | 100 | - | - | - | - | - | - | - | | | | |
| 622 | Oils, Aniline | - | - | X | X | 100 | 120 | - | - | - | - | 250 | - | - | - | X | 140 | X | X | A | A | - | - | - | A | | | | |
| 623 | Oils, Anise | - | - | - | - | - | - | - | - | - | - | 300 | - | - | - | - | - | - | - | A | A | - | - | - | - | | | | |

| | | | Plastics | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | | | | | | | |
|---|---|---|----------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|-------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|--|--|--|--|--|--|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Virylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C | | | | | | |
| Oils, Bay | - | - | - | - | - | - | 70 | - | - | 300 | - | - | - | 140 | - | - | - | A | A | - | - | - | - | | | | | | |
| Oils, Bone | - | - | - | - | - | - | 70 | - | - | 300 | - | - | - | 140 | - | - | - | A | A | - | - | - | - | | | | | | |
| Oils, Castor | - | - | - | * | - | - | 70 | - | - | 300 | - | - | - | 140 | - | - | - | A | A | - | - | - | - | | | | | | |
| Oils, Cinnamon | - | - | - | - | - | - | 70 | - | - | 300 | - | - | - | X | - | - | - | A | A | - | - | - | - | | | | | | |
| Oils, Citric | - | - | - | - | 72 | - | 70 | - | - | 300 | - | - | - | 140 | - | - | - | A | A | - | - | - | - | | | | | | |
| Oils, Clove | - | - | - | - | 72 | - | 70 | - | - | 300 | - | - | - | - | - | - | 140 | A | A | - | - | - | - | | | | | | |
| Oils, Coconut | - | - | 140 | 72 | 150 | 250 | 70 | - | - | 350 | - | - | - | 140 | X | 100 | 70 | A | A | - | - | - | - | | | | | | |
| Oils, Cod Liver | - | - | - | - | 72 | - | 70 | - | - | 300 | - | - | - | 140 | 108 | 100 | 140 | A | A | - | - | - | - | | | | | | |
| Oils, Corn | - | - | 68 | 68 | 100 | - | 250 | 70 | X | - | 250 | - | - | 140 | X | X | 140 | A | A | - | - | - | - | | | | | | |
| Oils, Cotton Seed | - | - | 140 | - | 150 | - | 250 | 70 | X | - | 300 | - | - | 140 | X | X | 180 | A | A | - | - | - | - | | | | | | |
| Oils, Creosote | - | - | X | X | X | - | 70 | X | - | 300 | - | - | - | 73 | X | X | 73 | A | A | - | - | - | - | | | | | | |
| Oils, Crude Sour | - | - | 140 | - | 73 | - | 250 | 70 | - | 250 | 250 | 200 | - | 180 | X | - | 70 | A | A | - | - | - | - | | | | | | |
| Oils, Diesel Fuel | - | - | 72 | 72 | 73 | - | 250 | 70 | X | - | 300 | 250 | 180 | - | 140 | X | X | 100 | A | A | - | - | - | | | | | | |
| Oils, Fuel | - | - | 140 | - | 73 | 250 | 70 | X | - | 300 | 250 | 180 | - | 140 | X | X | 100 | A | A | - | - | - | - | | | | | | |
| Oils, Linseed | - | - | 140 | * | 180 | - | 250 | 70 | X | - | 300 | 250 | 100 | - | 220 | X | 70 | 180 | A | A | - | - | - | | | | | | |
| Oils, Mineral | - | - | 140 | * | 100 | - | 250 | 70 | - | 300 | 270 | 200 | - | 300 | X | 70 | 140 | A | A | - | - | - | - | | | | | | |
| Oils, Olive | - | - | 140 | * | 180 | - | 250 | 70 | X | - | 300 | 220 | 200 | - | 150 | - | 140 | 140 | A | A | - | - | - | | | | | | |
| Oils, Pine | - | - | 140 | - | - | - | 70 | X | - | 300 | 150 | 150 | - | 70 | - | - | 70 | A | A | - | - | - | - | | | | | | |
| Oils, Silicone | - | - | - | - | 150 | 250 | - | 70 | - | 350 | - | - | - | 190 | 140 | 70 | 140 | A | A | A | A | A | - | | | | | | |
| Oils, Vegetable | - | - | - | * | 73 | 250 | - | 70 | - | 250 | 350 | 90 | 200 | - | 200 | X | 70 | 200 | A | A | A | A | - | | | | | | |
| Oleic Acid (Red Oil) | - | 0.9 | 140 | 190 | 73 | 250 | - | - | - | 212 | 250 | 200 | 200 | - | 190 | 70 | 70 | 100 | - | - | A | A | A | | | | | | |
| Oleum (Fuming Sulfuric Acid) | H ₂ SO ₄ | 100+ | - | X | X | X | X | X | X | 73 | 200 | X | X | - | 73 | X | X | X | - | - | A | - | A | | | | | | |
| Orange Extract | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| Oxalic Acid | - | 1.7 | 73 | 73 | 150 | 150 | 140 | - | 110 | 121 | 400 | 270 | 200 | - | 180 | 150 | 100 | X | - | - | A | A | A | | | | | | |
| Oxygen Gas | O ₂ | - | 73 | 180 | 150 | - | - | - | 150 | 250 | 400 | - | - | - | 180 | 200 | 200 | 100 | - | - | A | A | A | | | | | | |
| Ozonized Water | O ₃ | - | 73 | 73 | X | 250 | X | X | X | 250 | 400 | - | - | - | 220 | 180 | 80 | X | - | - | A | A | A | | | | | | |
| Palmitic Acid | - | 10 | 0.84 | 140 | 72 | 180 | 240 | 70 | 70 | - | 212 | 400 | 220 | 200 | - | 190 | 70 | X | 100 | - | - | A | - | | | | | | |
| Palmitic Acid | - | 70 | - | X | 72 | 180 | 240 | 70 | 70 | - | - | 400 | 220 | 200 | - | 190 | 70 | X | 100 | - | - | A | - | | | | | | |
| Paraffin | - | - | 120 | X | 120 | - | X | - | - | 121 | 400 | - | - | - | 250 | X | 73 | 140 | - | - | A | A | - | | | | | | |
| Pentane (Amyl Hydride) | CH ₃ (CH ₂) ₃ CH ₃ | - | - | - | - | - | - | - | X | - | 400 | - | - | - | 100 | X | 70 | 100 | - | - | A | - | A | | | | | | |
| Peracetic Acid | CH ₃ COOOH | 40 | - | X | X | X | - | 70 | - | - | 400 | - | - | - | 100 | - | - | - | - | - | - | - | - | | | | | | |
| Perchloric Acid | HClO ₄ | 10 | 1.8 | 140 | 140 | 100 | - | - | - | 121 | 400 | - | - | - | 70 | 70 | 70 | X | - | - | A | - | - | | | | | | |
| Perchloric Acid | HClO ₄ | 70 | - | X | X | X | 140 | X | X | - | 121 | 400 | X | X | - | 180 | 70 | X | X | - | - | B | - | | | | | | |
| Perchloroethylene | Cl ₂ CCl ₂ | - | 1.6 | X | X | X | 150 | - | X | X | - | - | 120 | X | - | 200 | X | X | X | - | - | A | - | | | | | | |
| Petrolatum (Petroleum Jelly) | - | - | - | 140 | 190 | 120 | - | - | - | 176 | - | 300 | - | - | 100 | X | 140 | 100 | - | - | A | - | - | | | | | | |
| Petroleum (Sour) | - | - | - | 100 | 150 | 73 | 250 | X | 70 | - | 121 | 300 | 250 | 200 | - | 180 | X | X | 180 | - | - | - | - | | | | | | |
| Petroleum Oils | - | - | - | 140 | 150 | 73 | - | - | 70 | - | 121 | - | 250 | 200 | - | 180 | X | 100 | 180 | - | - | - | - | | | | | | |
| Phenols (Carbolic Acid) | C ₆ H ₅ OH | 100 | 1.1 | X | 72 | 73 | 200 | X | - | X | 121 | 350 | X | X | - | 200 | 70 | X | X | A | X | A | - | | | | | | |
| Phenyl Acetate | C ₆ H ₅ OOCCH ₃ | - | 1.07 | - | - | - | - | - | X | - | - | - | - | - | X | - | X | X | - | - | - | - | - | | | | | | |
| Phenylhydrazine | C ₆ H ₅ NHNH ₂ | - | 1.1 | X | X | X | 100 | X | X | X | 73 | 400 | - | - | - | 180 | X | X | X | - | - | - | - | | | | | | |
| Phosgene Gas | COCl ₂ | - | - | X | X | X | X | X | X | - | - | 350 | - | - | - | X | - | X | X | - | - | - | - | | | | | | |
| Phosgene Liquid | - | 1.39 | - | X | X | X | - | X | - | - | - | - | - | - | X | - | X | X | - | - | - | - | - | | | | | | |
| Phosphoric Acid | H ₃ PO ₄ | 10 | 1.8 | 140 | 190 | 180 | 140 | 140 | 140 | 68 | 250 | 400 | 100 | 200 | - | 200 | 100 | 120 | X | - | - | A | - | | | | | | |
| Phosphoric Acid | H ₃ PO ₄ | 20 | - | 140 | 190 | 180 | 140 | 140 | 140 | 68 | 250 | 400 | 100 | 200 | - | 200 | 100 | 70 | X | - | - | A | - | | | | | | |
| Phosphoric Acid | H ₃ PO ₄ | 40 | - | 140 | 190 | 180 | 140 | 140 | 140 | 68 | 250 | 400 | 100 | 200 | - | 200 | 70 | 70 | X | - | - | A | - | | | | | | |
| Phosphoric Acid | H ₃ PO ₄ | 50 | - | 140 | 190 | 180 | 250 | 140 | 140 | - | 250 | 300 | 100 | 200 | - | 200 | 70 | X | X | - | - | A | - | | | | | | |
| Phosphoric Acid | H ₃ PO ₄ | 80 | - | 140 | 190 | 180 | 250 | 70 | 70 | - | 250 | 350 | 100 | 200 | - | 200 | 70 | X | X | - | - | A | - | | | | | | |
| Phosphoric Acid | H ₃ PO ₄ | 85 | - | 140 | - | 180 | 200 | 70 | 70 | X | 250 | 350 | 100 | 200 | - | 200 | 70 | X | X | - | - | A | - | | | | | | |
| Phosphoric Acid | H ₃ PO ₄ | 100 | 1.8 | - | - | - | - | - | X | - | 350 | - | - | - | 100 | 70 | X | X | - | - | A | - | - | | | | | | |
| Phosphoric Acid Crude | H ₃ PO ₄ | 1.83 | - | - | - | - | - | - | - | - | 250 | - | - | - | 100 | 70 | X | X | - | - | - | - | - | | | | | | |

| | | | Plastics | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | | |
|---|---|--|---|-----|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|-------|-------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | % Concentration | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Durapius (ABS) | Halar | PTFE | Epoxy | Vinylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C |
| 674 | Phosphorus Oxychloride | POCL ₃ | 1.68 | 73 | 73 | X | 200 | X | X | - | 250 | X | - | - | - | - | X | - | - | - | X | X | - | B |
| 675 | Phosphorus Red | - | - | 70 | 68 | 68 | 250 | - | - | - | 350 | - | X | - | - | - | - | - | - | - | A | - | - | - |
| 676 | Phosphorus Trichloride, dry | PCL ₃ | 1.57 | X | X | X | 250 | X | X | X | - | 300 | - | - | - | 150 | 100 | X | X | - | - | - | - | - |
| 677 | Phosphorus Yellow | - | - | 68 | 68 | 68 | 250 | - | - | - | 350 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 678 | Photographic Developer | - | - | 140 | 190 | 150 | 250 | X | 140 | - | 350 | - | - | - | 190 | - | 100 | - | A | A | - | - | - | - |
| 679 | Photographic Solutions | - | - | 140 | 190 | 150 | 250 | X | 140 | - | 400 | - | - | - | 180 | - | 200 | 200 | - | - | - | - | - | - |
| 680 | Phthalic Acid | - | - | - | - | - | - | - | - | - | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 681 | (Terephthalic Acid) | C ₆ H ₄ (COOH) ₂ | 1.59 | X | X | X | 200 | - | - | - | - | - | - | - | 140 | 100 | X | X | - | - | A | A | - | B |
| 682 | Phthalic Anhydride | C ₆ H ₄ (CO) ₂ O | 1.53 | X | X | X | - | - | X | - | 350 | 220 | 200 | - | - | - | - | - | - | - | - | - | - | - |
| 683 | Pickle Brine | - | - | 140 | 180 | 140 | 250 | - | - | - | - | - | - | - | 70 | 100 | X | 100 | - | - | - | - | - | - |
| 684 | Pickling Solutions | - | - | 140 | 180 | 180 | 250 | X | 140 | - | 400 | - | - | - | - | X | X | X | - | - | - | - | - | - |
| 685 | Picric Acid | C ₆ H ₂ (NO ₂) ₃ OH | 1.77 | X | X | 73 | 70 | X | 100 | - | 73 | 400 | 100 | 100 | - | 190 | 140 | 200 | X | - | A | - | - | A |
| 686 | Pine Oil | - | 1.48 | - | - | - | - | - | X | - | 400 | 150 | 150 | - | 70 | X | X | 70 | - | - | A | - | - | - |
| 687 | Plating Solutions, Antimony | - | - | 140 | 190 | 250 | 240 | 140 | 140 | - | 300 | - | - | - | 140 | - | 100 | 100 | - | - | A | - | - | - |
| 688 | Plating Solutions, Arsenic | - | - | 140 | 190 | 150 | 240 | 140 | 140 | - | 300 | - | - | - | 100 | - | 100 | 100 | - | - | A | - | - | - |
| 689 | Plating Solutions, Brass | - | - | 140 | 180 | 180 | 240 | 140 | 140 | - | 121 | 300 | - | - | 150 | 70 | 200 | 180 | - | X | B | - | - | - |
| 690 | Plating Solutions, Bronze | - | - | 140 | 180 | 180 | 200 | 140 | 140 | - | 121 | 250 | - | - | 70 | 70 | 100 | - | - | - | A | - | - | - |
| 691 | Plating Solutions, Cadmium | - | - | 140 | 180 | X | 240 | 140 | 140 | - | 121 | 250 | - | - | 180 | 70 | 200 | 180 | - | - | A | - | - | - |
| 692 | Plating Solutions, Chrome | - | - | 140 | 180 | X | 250 | 140 | 140 | - | 121 | 250 | - | - | 250 | - | 100 | X | - | - | A | - | - | - |
| 693 | Plating Solutions, Copper | - | - | 140 | 180 | 180 | 210 | 140 | 140 | - | 121 | 250 | - | - | 180 | 70 | 80 | 180 | - | - | - | - | - | - |
| 694 | Plating Solutions, Gold | - | - | 100 | 180 | X | 250 | 140 | 140 | - | 121 | 250 | - | - | 180 | 70 | 80 | 180 | - | - | - | - | - | - |
| 695 | Plating Solutions, Indium | - | - | 140 | 180 | 120 | 200 | 140 | 140 | - | 350 | - | - | - | 100 | - | 130 | - | - | - | - | - | - | - |
| 696 | Plating Solutions, Iron | - | - | 140 | 180 | 140 | 200 | 140 | 140 | - | 400 | - | - | - | - | - | X | 180 | - | - | - | - | - | - |
| 697 | Plating Solutions, Lead | - | - | 140 | 180 | 140 | 250 | 140 | 140 | - | 121 | 350 | - | - | 180 | 70 | 100 | 180 | - | - | - | - | - | - |
| 698 | Plating Solutions, Nickel | - | - | 140 | 140 | 140 | 250 | 140 | 140 | - | 121 | 350 | - | - | 180 | 70 | 200 | 180 | - | - | A | - | - | - |
| 699 | Plating Solutions, Rhodium | - | - | 140 | 140 | 140 | 250 | 140 | 140 | - | 121 | 350 | - | - | 180 | - | 80 | 180 | - | - | - | - | - | - |
| 700 | Plating Solutions, Silver | - | - | 140 | 100 | 180 | 250 | 140 | 140 | - | 121 | 350 | - | - | 180 | 70 | 100 | 180 | - | - | A | - | - | - |
| 701 | Plating Solutions, Tin | - | - | 140 | 180 | 180 | 250 | 140 | 140 | - | 121 | 350 | - | - | 180 | 100 | 100 | 180 | - | - | - | - | C | - |
| 702 | Plating Solutions, Zinc | - | - | 140 | 180 | 180 | 250 | 140 | 140 | - | 121 | 350 | - | - | 180 | 70 | 200 | 180 | - | - | - | - | - | - |
| 703 | Polyethylene Glycol | - | - | 140 | 180 | 180 | 250 | - | - | - | 121 | 350 | 150 | - | 200 | 100 | - | - | - | - | - | - | - | - |
| 704 | Polyvinyl Acetate Emulsion | - | 1.19 | - | - | - | 250 | - | 68 | - | 350 | 150 | 100 | - | 68 | - | 200 | 68 | - | - | - | - | - | - |
| 705 | Polyvinyl Alcohol | (CH ₂ CHOH) ₂ | - | 140 | 140 | 180 | 250 | - | - | - | 400 | 150 | 100 | - | 140 | - | - | 100 | - | - | - | - | - | - |
| 706 | Potash (Potassium Carbonate) | K ₂ CO ₃ | - | 140 | 180 | 180 | 250 | - | 176 | - | 400 | 100 | 150 | - | 200 | - | - | 150 | - | - | - | - | - | - |
| 707 | Potassium Acetate | KC ₂ H ₃ O ₂ | 1.6 | 70 | 180 | 100 | 250 | - | - | - | 400 | - | - | - | 68 | 100 | - | 68 | - | - | - | - | - | - |
| 708 | Potassium Alum (Aluminum Potassium) | - | - | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | 270 | 200 | 200 | 180 | 160 | 180 | - | - | - | - | - | - |
| 709 | Potassium Bicarbonate | KHCO ₃ | 2.2 | 140 | 200 | 180 | 250 | - | 176 | - | 400 | 100 | 150 | - | 200 | 170 | 160 | 70 | A | A | A | - | - | - |
| 710 | Potassium Bichromate (see Potassium Dichromate) | K ₂ Cr ₂ O ₇ | 2.7 | 140 | 180 | 180 | 250 | - | 176 | - | 300 | 200 | 200 | - | 250 | 170 | - | 180 | - | - | - | - | - | - |
| 711 | Potassium Bisulfate | KHSO ₄ | - | 140 | 180 | 180 | 250 | - | 176 | 212 | 300 | - | - | - | 200 | 170 | 140 | 180 | - | - | - | - | - | - |
| 712 | Potassium Bromate | KBrO ₃ | 3.3 | 140 | 180 | 180 | 250 | - | 176 | 212 | 300 | - | - | - | 200 | 170 | 140 | 180 | - | - | - | - | - | - |
| 713 | Potassium Bromide | KBr | 30 | 2.7 | 140 | 180 | 180 | 250 | - | 176 | 250 | 300 | 220 | 200 | 200 | 150 | 160 | 180 | - | - | - | - | - | - |
| 714 | Potassium Carbonate (Potash) | K ₂ CO ₃ | 2.4 | 140 | 180 | 180 | 250 | - | 176 | 250 | 300 | 100 | 150 | - | 200 | 160 | 160 | 180 | - | - | A | - | - | - |
| 715 | Potassium Chlorate Aqueous | KClO ₃ | 30 | 2.3 | 140 | 180 | 250 | - | 176 | 250 | 300 | - | - | - | 180 | 140 | 100 | 100 | - | - | - | - | A | - |
| 716 | Potassium Chloride | KCl | 2 | 140 | 180 | 180 | 250 | - | 176 | 250 | 350 | 200 | 200 | - | 200 | 200 | 140 | 180 | - | - | - | - | - | - |
| 717 | Potassium Chromate | K ₂ CrO ₄ | 2.7 | 140 | 180 | 180 | 250 | - | - | 250 | - | - | - | - | 100 | 170 | 70 | 140 | A | X | - | - | - | - |
| 718 | Potassium Copper Cyanide | KCuCN | - | 140 | 180 | 200 | 250 | - | - | 250 | 300 | - | - | - | 200 | 140 | - | 140 | - | - | - | - | - | - |
| 719 | Potassium Cyanide | KCN | 1.5 | 140 | 180 | 180 | 250 | - | 176 | - | 350 | 230 | 180 | - | 190 | 140 | 160 | 180 | C | A | A | - | - | - |
| 720 | Potassium Dichromate | K ₂ Cr ₂ O ₇ | 10 | 2.7 | 140 | 180 | 250 | - | 176 | 250 | 350 | 200 | 200 | - | 180 | 170 | 160 | 180 | - | - | - | - | - | - |
| 721 | Potassium Ferricyanide | K ₃ Fe(CN) ₆ | - | 140 | 180 | 140 | 250 | - | 176 | 250 | 350 | 220 | 200 | - | 140 | 150 | 70 | - | - | - | - | - | - | - |

| | | | Plastics | | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | | | |
|---|--------------------------------------|--|---|------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|-------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|---|---|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | % Concentration | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Vinylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C | | |
| 722 | Potassium Ferrocyanide | K ₄ Fe(CN) ₆ | - | 1.9 | 140 | 180 | 140 | 250 | - | - | 176 | 250 | 350 | 220 | 200 | - | 180 | 140 | 200 | 180 | - | - | - | - | - | |
| 723 | Potassium Fluoride | KF | - | 2.5 | 140 | 180 | 180 | 250 | - | - | 176 | 250 | 350 | - | - | - | 180 | 140 | - | 180 | - | - | - | - | - | |
| 724 | Potassium Hydroxide (Caustic Potash) | - | - | 2 | - | - | - | - | - | - | 176 | 250 | - | - | - | - | 200 | 160 | 70 | - | - | A | - | - | - | |
| 725 | Potassium Hydroxide | KOH | 25 | - | 140 | 180 | 180 | 140 | - | - | 176 | - | 350 | 100 | 120 | - | - | 200 | 160 | 100 | - | - | A | - | - | |
| 726 | Potassium Hydroxide | KOH | 10 | - | 140 | 180 | 100 | X | - | - | 176 | 250 | 350 | - | - | - | - | 200 | 160 | 70 | - | - | A | - | - | |
| 727 | Potassium Hypochlorite | KHOCL | - | - | 140 | 180 | 73 | 250 | X | - | - | 250 | 300 | - | - | - | 100 | 70 | X | X | - | - | A | - | - | |
| 728 | Potassium Iodide | KI | - | 3.12 | 140 | 180 | 180 | 48 | - | - | 176 | - | 300 | - | - | - | 100 | 140 | 160 | 80 | - | - | - | - | - | |
| 729 | Potassium Nitrate (Salt Peter) | KNO ₃ | - | 2.1 | 140 | 180 | 150 | 250 | - | - | 176 | - | 350 | 270 | 200 | - | 180 | 210 | 200 | 180 | - | - | A | - | - | A |
| 730 | Potassium Perbotate | - | - | - | 140 | 180 | 180 | 250 | - | - | - | - | 350 | - | - | - | - | 70 | 70 | - | - | - | - | - | - | |
| 731 | Potassium Perchlorate | KClO ₄ | - | 2.5 | 140 | 180 | 180 | 250 | - | - | - | - | 350 | - | - | - | 150 | 140 | X | X | - | - | - | - | - | |
| 732 | Potassium Permanganate | KMNO ₄ | 20 | 2.7 | 140 | * | 120 | 250 | - | - | - | 73 | 350 | X | 150 | - | 150 | 210 | 100 | X | A | A | B | B | - | B |
| 733 | Potassium Persulfate | K ₂ S ₂ O ₈ | - | 2.5 | 140 | 180 | 120 | 250 | - | - | - | 300 | 400 | - | 180 | - | 200 | 210 | 140 | X | A | A | - | A | - | |
| 734 | Potassium Phosphate | K ₂ HPO ₄ | - | - | - | 180 | - | - | - | - | - | 121 | 400 | 180 | 100 | - | 140 | 100 | 100 | 100 | - | - | - | - | - | |
| 735 | Potassium Salts | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 736 | Potassium Sulfate | K ₂ SO ₄ | - | 2.7 | 140 | 180 | 180 | 250 | - | - | 176 | - | 400 | 250 | 180 | - | 200 | 180 | 140 | 140 | A | A | - | - | - | |
| 737 | Potassium Sulfide | K ₂ S | - | 1.8 | 100 | 120 | - | 250 | - | - | - | 250 | 300 | - | - | - | 100 | - | 70 | 100 | - | - | - | - | - | |
| 738 | Potassium Thiosulfate | K ₂ S ₂ O ₃ | - | - | - | - | - | - | - | - | 176 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 739 | Propane (Dimethyl-Methane) | C ₃ H ₈ | - | - | 72 | 72 | 73 | 250 | - | - | X | - | 300 | 150 | 100 | - | 300 | X | 70 | 100 | - | - | - | - | - | |
| 740 | Propanol (see Alcohol, Propyl) | - | - | - | - | - | - | - | - | - | X | 250 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 741 | Propargyl Alcohol | HC:CCH ₂ OH | - | - | 72 | 72 | 120 | 150 | - | - | - | - | 350 | - | - | - | 140 | - | X | X | - | - | - | - | - | |
| 742 | Propyl Acetate | C ₃ H ₇ OOCCH ₃ | - | 0.89 | - | - | - | 100 | - | - | X | 73 | 140 | - | - | - | X | 70 | X | 100 | - | - | - | - | - | |
| 743 | Propyl Alcohol | CH ₃ CH ₂ CH ₂ OH | - | 0.8 | 120 | 160 | 150 | 150 | - | - | X | 250 | 400 | - | - | - | 200 | 140 | 200 | - | - | - | - | - | - | |
| 744 | Propylene | CH ₃ CH:CH ₂ | - | 0.51 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | |
| 745 | Propylene Dichloride | CH ₃ CHCLCH ₂ Cl | - | 1.58 | X | X | X | 150 | - | - | X | - | 400 | - | - | - | 70 | X | X | 100 | - | - | - | - | - | |
| 746 | Propylene Glycol | H ₂ CHOHCH ₂ O | - | 1 | - | * | - | 250 | X | 140 | - | - | 400 | 200 | - | - | 200 | - | 100 | x | - | - | - | - | - | |
| 747 | Pyridine | N(CH) ₂ CH | - | 1 | X | X | 73 | X | - | - | X | - | 350 | - | - | - | X | 70 | X | 80 | - | - | - | B | - | |
| 748 | Pyrogallol Acid (Pyrogallol) | C ₆ H ₃ (OH) ₃ | - | 1.47 | 73 | - | - | 150 | - | - | - | 121 | 350 | - | - | - | 80 | - | 200 | - | - | - | - | - | - | |
| 749 | Quaternary Ammonium | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 750 | Salts | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | A | - | - | - | |
| 751 | Rayon Coagulating Bath | - | - | - | 140 | 180 | 73 | 73 | X | 140 | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | |
| 752 | Rhodan Salts (Thiocyanates) | - | - | - | 140 | 140 | 140 | 250 | - | - | - | - | - | - | - | 180 | - | - | - | - | - | - | - | - | - | |
| 753 | Rosins | - | - | - | - | - | - | - | - | - | - | - | 350 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 754 | Rum | - | - | - | 100 | 100 | 100 | - | - | - | - | - | - | - | - | 70 | - | - | - | - | - | - | - | - | - | |
| 755 | Rust Inhibitors | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 756 | Salad Dressings | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | A | - | - | - | |
| 757 | Salicylaldehyde | C ₆ H ₄ OHCHO | - | 1.17 | X | X | - | 140 | - | - | - | 73 | 200 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 758 | Salicylic Acid | C ₆ H ₄ (OH)(COOH) | - | 1.44 | - | - | - | 210 | - | - | - | - | 250 | - | - | - | 200 | - | - | 68 | A | A | - | - | - | |
| 759 | Saline Solutions (Brine) | - | - | - | 140 | 190 | 180 | 250 | 140 | 140 | - | 250 | 400 | 200 | - | - | 280 | 250 | 160 | 180 | - | - | B | - | - | |
| 760 | Salt Brine | - | - | - | 140 | 190 | 180 | 250 | 140 | 140 | - | 250 | 400 | 200 | - | - | 280 | 250 | 160 | 180 | A | A | B | - | - | B |
| 761 | Sea Water | - | - | - | 140 | 190 | 180 | 250 | 140 | 140 | 176 | 250 | 400 | 200 | - | - | 280 | 250 | 160 | 180 | A | A | C | - | - | A |
| 762 | Salenic Acid | H ₂ SeO ₄ | - | 22.6 | 140 | 190 | 73 | 70 | 70 | 70 | - | - | 350 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 763 | Sewage | - | - | - | 140 | 180 | 180 | 250 | - | - | - | - | 350 | - | - | - | 180 | 140 | 140 | 150 | A | A | A | - | - | |
| 764 | Shellac Bleached | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 765 | Shellac Orange | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 766 | Salicic Acid | SiO ₂ H ₂ O | - | - | 140 | 180 | 180 | 250 | 140 | 140 | - | - | 250 | - | - | - | 200 | 140 | 140 | 180 | - | - | - | - | - | |
| 767 | Silicone Oil | - | - | - | 140 | 150 | 150 | 250 | - | - | - | 73 | 350 | - | - | - | 190 | 140 | 70 | 140 | A | A | A | - | - | |
| 768 | Silver Bromide | AgBr | - | 6.47 | - | - | - | 140 | 140 | - | 73 | - | - | - | - | - | - | - | - | - | A | - | - | - | - | |
| 769 | Silver Cyanide | AgCN | - | 3.95 | 140 | 180 | 180 | 250 | 140 | 140 | - | 250 | 300 | - | - | - | 140 | 70 | x | - | - | - | - | - | - | |

| | | | Plastics | | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | | | | | | | | |
|---|---|--|---|------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|-------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|---|--|--|--|--|--|--|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | % Concentration | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Vinylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C | | | | | | | |
| 770 | Silver Nitrate | AgNO ₃ | - | 4.32 | 140 | 180 | 180 | 280 | 140 | 140 | - | 250 | 350 | - | - | 250 | 200 | 160 | 140 | A | A | A | - | - | - | | | | | | |
| 771 | Silver Salts | - | - | - | 140 | 180 | 180 | 280 | 140 | 140 | - | - | 350 | - | - | 140 | 140 | 100 | - | - | - | A | - | - | - | | | | | | |
| 772 | Silver Sulfate | Ag ₂ SO ₄ | - | 5.45 | 140 | 180 | 140 | 250 | 140 | 140 | - | 250 | 250 | - | - | 200 | 170 | 100 | 100 | - | - | - | - | - | - | | | | | | |
| 773 | Soap Solutions | - | - | - | 140 | 180 | 180 | 280 | x | 140 | - | 121 | 350 | - | - | 200 | 200 | 140 | 180 | A | A | A | - | - | - | | | | | | |
| 774 | Soda Ash (Sodium Carbonate) | Na ₂ CO ₃ | - | 1.55 | 140 | 180 | 180 | 280 | - | - | 176 | 250 | 400 | 100 | 150 | - | 250 | 140 | 140 | 140 | - | - | A | - | - | | | | | | |
| 775 | Sodium | Na | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| 776 | Sodium Aceate | NaC ₂ H ₃ O ₂ | - | 1.5 | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 350 | 220 | 200 | - | X | 170 | 200 | X | A | A | A | - | - | | | | | | |
| 777 | Sodium Alum | - | - | - | 140 | 180 | 180 | 250 | 140 | 140 | - | 250 | 350 | - | - | - | 210 | 160 | 140 | 180 | - | - | - | - | - | | | | | | |
| 778 | Sodium Aluminate | Na ₂ Al ₂ O ₄ | - | - | - | - | - | - | - | - | 176 | - | - | - | - | - | 200 | 200 | 140 | 180 | A | A | - | - | A | | | | | | |
| 779 | Sodium Benzoate | C ₆ H ₅ COONa | - | - | 140 | 180 | 180 | 250 | 140 | 140 | - | 250 | 300 | 200 | 180 | - | 200 | 210 | - | 140 | - | - | - | - | - | | | | | | |
| 780 | Sodium Bicarbonate | NaHCO ₃ | - | 2.2 | 140 | 180 | 180 | 280 | 140 | 140 | 176 | 250 | 400 | 250 | 150 | - | 300 | 210 | 160 | 180 | A | A | - | - | A | | | | | | |
| 781 | Sodium Bichromate (see Sodium Dichromate) | Na ₂ Cr ₂ O ₇ | - | - | 140 | 140 | 140 | 250 | 140 | 140 | 176 | 121 | 350 | 200 | 200 | - | 200 | 140 | 70 | 140 | - | - | - | - | - | | | | | | |
| 782 | Sodium Bisulfate | NaHSO ₄ | - | 2.4 | 140 | 180 | 180 | 280 | 140 | 149 | 176 | 250 | 250 | 250 | 200 | - | 250 | 200 | 140 | 180 | A | A | - | - | A | | | | | | |
| 783 | Sodium Bisulfite | NaHSO ₃ | - | 1.5 | 140 | 180 | 180 | 250 | 140 | 140 | 176 | 250 | 350 | - | - | - | 250 | 200 | 140 | 180 | - | - | - | - | A | | | | | | |
| 784 | Sodium Borate (Borax) | Na ₂ B ₄ O ₇ | - | 1.7 | 100 | 180 | 200 | 250 | 140 | 140 | 176 | - | 300 | - | - | - | 180 | 140 | 200 | 180 | A | A | - | - | A | | | | | | |
| 785 | Sodium Bromate | NaBrO ₃ | - | 3.34 | - | - | - | - | 140 | 140 | 176 | - | - | 140 | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| 786 | Sodium Bromide | NaBr | - | 3.2 | 140 | 180 | 180 | 250 | - | - | 176 | 250 | 300 | 250 | 200 | - | 250 | 210 | 70 | 70 | - | - | - | - | A | | | | | | |
| 787 | Sodium Carbonate (Soda Ash) | Na ₂ CO ₃ | - | 1.55 | 140 | 180 | 180 | 250 | - | - | 176 | 250 | 350 | 100 | 150 | - | 200 | 140 | 200 | 200 | B | A | - | - | A | | | | | | |
| 788 | Sodium Chlorate | NaClO ₃ | - | 2.5 | 100 | 180 | 180 | 250 | - | - | 176 | 250 | 350 | - | 180 | - | 180 | 140 | 70 | 180 | A | A | - | - | A | | | | | | |
| 789 | Sodium Chloride (Salt) | NaCl | - | 2.2 | 140 | 180 | 180 | 280 | 140 | 140 | 176 | 250 | 350 | 270 | 200 | - | 200 | 140 | 160 | 140 | - | - | - | - | B | | | | | | |
| 790 | Sodium Chlorite | NaClO ₂ | 25 | - | 140 | 180 | 73 | 140 | - | - | - | 212 | 400 | - | - | - | X | X | - | X | - | - | - | - | - | | | | | | |
| 791 | Sodium Chromate | Na ₂ CrO ₄ | - | - | - | - | - | 200 | - | - | - | - | - | - | - | - | 70 | 70 | 70 | 70 | - | - | - | - | A | | | | | | |
| 792 | Sodium Cyanide | NaCN | - | - | 140 | 170 | 180 | 250 | - | - | 176 | 250 | 350 | 230 | 200 | - | 200 | 140 | 140 | 140 | - | - | - | - | A | | | | | | |
| 793 | Sodium Dichromate | Na ₂ Cr ₂ O ₇ | - | 2.5 | 140 | 140 | 140 | 250 | - | - | 176 | 121 | 350 | 200 | 200 | - | 200 | 140 | 70 | 140 | - | - | - | - | - | | | | | | |
| 794 | Sodium Ferricyanide | Na ₃ Fe(CN) ₆ | - | 1.5 | 140 | 180 | 150 | 250 | - | - | 176 | - | 300 | 270 | 200 | - | 140 | 140 | - | 70 | - | - | A | - | - | | | | | | |
| 795 | Sodium Ferrocyanide | Na ₄ Fe(CN) ₆ | - | 1.5 | 140 | 180 | 150 | 250 | - | - | 176 | - | 350 | 270 | 200 | - | 140 | 140 | - | 70 | - | - | - | - | - | | | | | | |
| 796 | Sodium Fluoride | NaF | - | 2.6 | 140 | 180 | 180 | 250 | - | - | 716 | 250 | 350 | - | - | - | 140 | 140 | 70 | 70 | - | - | A | - | - | | | | | | |
| 797 | Sodium Hydrosulfide | NaSH | - | - | - | - | - | - | - | - | - | 250 | - | 120 | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| 798 | Sodium Hydrosulfite | Na ₂ S ₂ O ₆ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| 799 | Sodium Hydroxide | NaOH | 15 | - | 140 | 180 | 180 | 150 | X | 140 | 176 | 250 | 400 | 120 | 100 | - | 100 | 210 | 160 | 140 | - | - | A | - | - | | | | | | |
| 800 | Sodium Hydroxide | NaOH | 20 | - | 140 | 180 | 180 | 73 | X | 140 | 176 | - | 350 | 120 | 100 | - | 100 | 210 | 160 | 100 | - | - | A | - | - | | | | | | |
| 801 | Sodium Hydroxide | NaOH | 30 | - | 140 | 180 | 180 | X | X | 140 | 176 | 212 | 350 | 120 | 100 | - | 100 | 210 | 160 | 100 | - | - | A | - | - | | | | | | |
| 802 | Sodium Hydroxide | NaOH | 50 | 2.1 | 140 | 180 | 180 | X | X | 140 | 176 | 212 | 350 | 150 | X | - | X | 180 | 160 | X | - | - | A | - | - | | | | | | |
| 803 | Sodium Hydroxide | NaOH | 70 | - | 140 | 180 | 180 | X | X | 140 | 176 | - | 350 | - | - | - | X | 70 | 100 | X | - | - | - | - | - | | | | | | |
| 804 | Sodium Hydroxide Conc. (Caustic Soda) | NaOH | - | - | 140 | 180 | 120 | X | X | 140 | 176 | - | 70 | - | - | - | X | 100 | X | X | - | - | - | - | - | | | | | | |
| 805 | Sodium Hypochlorite (Bleach) | NaOCL | - | - | 140 | 180 | 120 | 100 | 140 | 140 | X | 250 | 300 | X | 150 | - | 140 | 70 | X | X | - | - | A | - | - | | | | | | |
| 806 | Sodium Hypochlorite Conc | NaOCL | 15 | - | 140 | 100 | 72 | 100 | - | - | X | - | 300 | X | - | - | 180 | X | 70 | X | - | - | - | - | - | | | | | | |
| 807 | Sodium Hyposulfate | Na ₂ S ₂ O ₃ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| 808 | Sodium Iodide | NaI | - | - | - | - | - | 280 | - | - | - | 121 | - | - | - | - | - | - | 160 | - | - | - | - | - | - | | | | | | |
| 809 | Sodium Metaphosphate | (NaPO ₃) _n | - | - | 140 | 180 | 150 | 250 | - | - | 68 | 250 | - | - | - | - | 180 | 70 | 100 | 150 | - | - | A | - | - | | | | | | |
| 810 | Sodium Metasilicate | Na ₂ SiO ₃ | - | - | 140 | 180 | 180 | 250 | - | - | 176 | - | 350 | - | - | - | 200 | - | - | 170 | - | - | - | - | - | | | | | | |
| 811 | Sodium Nitrate | NaNO ₃ | - | 2.3 | 140 | 180 | 180 | 250 | - | - | - | - | 400 | 270 | 200 | - | 210 | 200 | 190 | 170 | A | A | A | - | - | | | | | | |
| 812 | Sodium Nitrate | NaNO ₃ | - | 2.2 | 140 | 180 | 180 | 250 | - | - | 176 | 250 | 400 | 270 | 200 | - | 200 | 170 | 140 | X | A | A | A | - | - | | | | | | |
| 813 | Sodium Palmitate | - | - | - | 140 | 180 | 120 | 250 | - | - | - | - | 400 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| 814 | Sodium Perborate | NaBO ₃ | - | - | 140 | 180 | 180 | 250 | - | - | - | - | 350 | - | - | - | 180 | 70 | 200 | 200 | - | - | A | - | - | | | | | | |
| 815 | Sodium Perchlorate | NaClO ₄ | - | 2.02 | 140 | 180 | 180 | 250 | - | - | - | 73 | 350 | - | - | - | - | - | - | 70 | - | - | - | - | - | | | | | | |
| 816 | Sodium Peroxide | Na ₂ O ₂ | 10 | 2.8 | 140 | 180 | 180 | 200 | - | - | - | 250 | 350 | - | - | - | 180 | 140 | 200 | 200 | - | - | A | - | - | | | | | | |
| 817 | Sodium Phosphate Acid | Na ₂ HPO ₄ | - | 1.7 | 140 | 180 | 140 | 280 | - | - | - | 250 | 350 | - | - | - | 200 | 170 | 140 | 140 | - | - | A | - | - | | | | | | |

| | | | Plastics | | | | | | | | | | | Elastomers | | | Seals | | Metals | | | | | |
|---|--|--|----------|------|--------------------|-----------------------------|----------------------------------|----------------|-------|------|-------|------------|-------------|------------|------|----------|------------------|--------|---------|---------------------|---------------------|----------|-------------|---|
| Rating Key: (A): Excellent; (B): Good; (C): Fair to Poor; (X): Not Recommended; (-): No Data Available; (150): Good up to 150°F | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical | Formula | Approximate sp. Gravity @100% Concentration | PVC | CPVC | Polypropylene (PP) | HD Linear Polyethylene (PE) | Polyethylene Cross linked (XLPE) | Duraplus (ABS) | Halar | PTFE | Epoxy | Vinylester | Polysulfone | Viton | EPDM | Neoprene | Buna-N (Nitrile) | Carbon | Ceramic | 304 Stainless Steel | 316 Stainless Steel | Titanium | Hastelloy C | |
| 863 | Sulfuryl Chloride | SO ₂ Cl ₂ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | B | |
| 864 | Syrup (Sucrose in water) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 865 | Tall Oil | - | 140 | 180 | 180 | 250 | X | 70 | - | 250 | 250 | 200 | 200 | - | 300 | X | 70 | 200 | - | - | A | B | - | |
| 866 | Tallow (Animal Fat) | - | 0.86 | - | - | - | - | X | 70 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 867 | Tannic Acid | C ₇₆ H ₅₂ O ₄₆ | - | - | 140 | 200 | 180 | 250 | X | 140 | - | 212 | 250 | 225 | 200 | - | 100 | 70 | 100 | 100 | - | A | B | - |
| 868 | Tanning Liquors | - | - | - | 140 | 190 | 73 | 68 | - | - | - | 212 | 250 | - | - | - | 200 | - | 70 | 180 | A | A | B | |
| 869 | Tar | - | - | - | X | X | - | 250 | - | - | - | 250 | 250 | - | - | 190 | X | 70 | X | - | - | A | - | |
| 870 | Tartaric Acid (DihydroxySuccinic Acid) | - | 1.8 | 140 | 180 | 140 | 250 | 140 | 140 | 176 | 212 | 250 | 250 | 200 | - | 180 | X | 180 | 70 | - | - | A | - | |
| 871 | Tertiary Butyl Alcohol | - | - | - | 68 | 68 | 68 | 250 | - | - | X | - | 250 | - | - | 70 | - | - | X | - | - | A | - | |
| 872 | Tetrachlorethane | CHCL ₂ CHCL ₂ | - | - | X | X | X | 250 | - | - | X | - | 350 | - | - | 70 | X | X | X | - | - | A | - | |
| 873 | Tetraethyl Lead | Pb(C ₂ H ₅) ₄ | - | 1.65 | 72 | 72 | 73 | 250 | - | - | - | 250 | 350 | - | - | 150 | X | X | X | - | - | - | - | |
| 874 | Tetrahydrofuran | - | - | - | X | X | X | X | X | X | X | 350 | 120 | 100 | - | X | X | X | X | - | - | - | X | |
| 875 | Tetralin (Tetrahydro-Naphthalene) | C ₁₀ H ₁₂ | - | - | X | X | X | - | X | X | X | - | 300 | - | - | 68 | X | X | X | - | - | - | - | |
| 876 | Thionyl Chloride | SOCL ₂ | - | 1.64 | X | X | X | X | X | X | X | 121 | 350 | X | X | - | 73 | X | X | X | - | - | X | |
| 877 | Thread Cutting Oils | - | - | - | 140 | 72 | 120 | 150 | - | - | - | 250 | 400 | - | - | 70 | X | - | 70 | - | - | B | B | |
| 878 | Titanium Tetrachloride | TiCL ₄ | - | - | X | X | X | X | - | - | - | - | 400 | - | - | 150 | X | X | X | - | - | C | C | |
| 879 | Titanous Sulfate | Ti ₂ (SO ₄) ₃ | - | 1.47 | 140 | 180 | 180 | 250 | - | - | - | - | 350 | - | - | - | - | - | - | - | - | - | - | |
| 880 | Toluene | CH ₃ C ₆ H ₅ | - | 0.9 | X | X | X | 150 | X | X | X | 121 | 350 | 150 | X | - | 70 | X | X | - | A | A | A | |
| 881 | Tomato Juice | - | - | - | 140 | 180 | 150 | 250 | 70 | 140 | 68 | - | 400 | - | - | 200 | 200 | 100 | 150 | - | - | C | B | |
| 882 | Toxaphene-Xylene | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 883 | Transformer Oil (Liquid Insulators) Mineral Oil Type | - | - | - | 140 | 190 | 73 | 200 | X | 70 | 176 | 212 | 400 | 150 | X | - | 180 | X | 100 | 180 | - | - | A | |
| 884 | Tributyl Phosphate | (C ₄ H ₉) ₃ PO ₄ | - | - | X | X | 70 | 100 | - | - | X | 73 | 400 | - | - | - | X | 70 | X | X | A | A | - | |
| 885 | Trichloroacetic Acid | XCCl ₃ COOH | - | 1.6 | 73 | 72 | 120 | 100 | - | - | - | 121 | 400 | - | - | 180 | 70 | 70 | 70 | - | - | X | X | |
| 886 | Trichloroethane (Methyl Chloroform) | CHCL ₂ CH ₂ CL | - | - | X | X | X | - | - | - | X | - | 350 | - | - | - | X | X | X | - | - | - | A | |
| 887 | Trichloroethylene | CHCL:CCL ₂ | - | 1.1 | X | X | 68 | 170 | X | X | X | 73 | 350 | 120 | X | - | 200 | X | X | X | - | - | A | |
| 888 | Trichloropropane | - | - | 1.39 | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | |
| 889 | Tricresyl Phosphate (TCP) | CH ₃ C ₆ H ₄ O) ₃ PC | - | 1.16 | X | X | - | - | - | - | X | 212 | - | - | - | - | - | X | X | - | - | - | A | |
| 890 | Triethanolamine | (HOCH ₂ CH ₂) ₃ N | - | 1.12 | X | X | X | X | - | - | 73 | 73 | - | 150 | X | - | X | 70 | 70 | 70 | - | - | C | |
| 891 | Triethyl Phosphate | (C ₂ H ₅) ₃ PO ₄ | - | 0.73 | - | - | - | - | - | - | X | 73 | - | - | - | - | - | - | - | - | - | - | - | |
| 892 | Triethylamine | (C ₂ H ₅) ₃ N | - | - | 73 | 72 | 72 | 70 | - | - | - | 121 | - | 100 | X | - | 200 | 73 | 70 | 140 | - | - | - | |
| 893 | Trimethylpropane | (CH ₂ OH) ₃ C ₃ H ₅ | - | - | 73 | - | - | 250 | - | - | - | - | 300 | - | - | 200 | - | 150 | 150 | - | - | - | - | |
| 894 | Trisodium Phosphate | Na ₃ PO ₄ | - | - | 140 | 180 | 180 | 250 | - | - | - | 250 | 300 | - | - | 180 | 70 | 200 | 200 | - | - | A | - | |
| 895 | Turbine Oil | - | - | - | 72 | 72 | 70 | - | - | - | - | 350 | - | - | 140 | X | X | 68 | A | A | A | - | - | |
| 896 | Turpentine | C ₁₀ H ₁₆ | - | 0.9 | X | X | X | 250 | X | X | X | 250 | 300 | 150 | X | - | 180 | X | X | 100 | - | - | A | |
| 897 | Urea | CO(NH ₂) ₂ | - | 1.3 | 140 | 180 | 180 | 250 | X | 140 | 176 | 212 | 250 | 200 | 150 | - | 180 | 140 | 140 | 140 | - | - | - | |
| 898 | Urine | - | - | - | 140 | 180 | 180 | 250 | 140 | 140 | 68 | 121 | 350 | - | - | 180 | 140 | 140 | 100 | - | - | A | - | |
| 899 | Vanilla Extract (Vanillin) | - | - | - | - | - | - | X | 140 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 900 | Varnish | - | - | - | - | - | 250 | - | 68 | - | 250 | - | - | - | 68 | X | X | 68 | - | - | A | - | - | |
| 901 | Vaseline | - | - | - | 140 | 180 | 180 | 250 | - | - | 176 | 121 | 400 | - | - | 70 | X | 140 | 140 | - | - | - | - | |
| 902 | Vegetable Oil | - | - | - | 140 | 150 | 140 | 200 | - | 70 | - | - | 400 | - | - | 300 | 140 | 200 | 100 | - | - | A | B | |
| 903 | Vinegar (4-8% Acetic Acid) | - | - | - | 140 | 180 | 140 | 200 | 140 | 140 | 68 | 212 | 400 | 200 | 200 | - | 180 | 140 | 200 | X | - | A | C | |
| 904 | Vinyl Acetate | - | - | 0.93 | X | X | - | 250 | - | - | X | 73 | 350 | 150 | X | - | X | 70 | X | X | - | - | A | |
| 905 | Vinyl Chloride | CH ₂ :CHCL | - | - | X | X | - | - | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | |
| 906 | Vinyl Ether | H ₂ :CHOCH:CH | - | 0.77 | X | X | X | - | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | |
| 907 | Water Acid Mine | - | - | - | 140 | 180 | 150 | 280 | - | - | - | 250 | 400 | - | - | 180 | 250 | 160 | 180 | A | A | A | A | |
| 908 | Water Deionized | H ₂ O | - | - | 140 | 180 | 180 | 280 | 140 | 140 | 176 | 250 | 400 | 250 | 180 | - | 140 | 250 | 160 | 180 | A | A | A | |
| 909 | Water Demineralized | H ₂ O | - | - | 140 | 180 | 180 | 280 | 140 | 140 | 176 | 250 | 400 | 250 | 200 | - | 180 | 250 | 160 | 200 | A | A | A | |
| 910 | Water Distilled | H ₂ O | - | - | 140 | 180 | 180 | 280 | 140 | 140 | 176 | 250 | 400 | 250 | 200 | - | 140 | 250 | 160 | 180 | A | A | A | |
| 911 | Water Potable | H ₂ O | - | - | 140 | 180 | 180 | 280 | 140 | 140 | 176 | 250 | 400 | 270 | 200 | - | 140 | 250 | 160 | 180 | A | A | A | |

