

Solubility of Various Compounds in Glycerine

| Substance | Glycerine Concentration % Weight | Temp. °C | Solubility in Parts per 100 Parts of solvent | Ref. † | Substance | Glycerine Concentration % Weight | Temp. °C | Solubility in Parts per 100 Parts of solvent | Ref. † |
|-----------------------------|----------------------------------|----------|--|--------|-------------------------------------|----------------------------------|----------|--|--------|
| Alum | NS | 15 | 40 | 6 | Phenylethyl alcohol | NS | 15 | 1.5 | 1 |
| Ammonium carbonate | NS | 15 | 20 | 8 | Phosphorus | NS | 15 | ca. 0.25 | 8 |
| | 99.04 | 20 | 19.8 | 9 | Potassium arsenate | NS | 15 | 50.13 | 8 |
| | 87.27 | 20 | 13.7 | 9 | Potassium bromide | NS | 15 | 25 | 6 |
| Ammonium chloride | NS | 15 | 20.06 | 8 | | 98.5 | — | 17.15 | 4 |
| Anisic aldehyde | NS | 15 | 0.1 | 1 | | 86.5 | — | 20.59 | 4 |
| Arsenic acid | NS | 15 | 20 | 6 | Potassium chlorate | NS | 15 | 3.54 | 8 |
| Arsenious acid | NS | 15 | 20 | 6 | | 98.5 | — | 1.03 | 4 |
| Atropine | NS | 15 | 3 | 5 | | 86.5 | — | 1.32 | 4 |
| Atropine sulfate | 99.04 | 20 | 45.2 | 9 | Potassium chloride | NS | 15 | 3.72 | 8 |
| | 87.27 | 20 | 45.8 | 9 | Potassium cyanide | NS | 15 | 31.84 | 8 |
| Barium chloride | NS | 15 | 9.73 | 8 | Potassium iodate | NS | 15 | 1.9 | 5 |
| Benzoic acid | 98.5 | — | 2 | 4 | Potassium iodide | NS | 15 | 39.72 | 8 |
| | 95.1 | 23 | 2.01 | — | | 98.5 | — | 50.7 | 4 |
| | 90 | 23 | 1.74 | — | | 86.5 | — | 58.27 | 4 |
| | 86.5 | — | 1.18 | 4 | Quinine | NS | 15 | 0.47 | 8 |
| | 75 | 23 | 1.02 | — | Quinine sulfate | 98.5 | — | 1.32 | 4 |
| | 50 | 23 | 0.06 | — | | 86.5 | — | 0.72 | 4 |
| Benzyl acetate | NS | 15 | 0.1 | 1 | Quinine tannate | NS | 15 | 0.25 | 5 |
| Boric acid | 98.5 | 20 | 24.8 | 4 | | 99.04 | 20 | 2.8 | 9 |
| | 86.5 | 20 | 13.79 | 4 | | 87.27 | 20 | 2.45 | 9 |
| Brucine | NS | 15 | 2.25 | 5 | Salicin | NS | 15 | 12.5 | 5 |
| Calcium hydroxide | 35 | 25 | 1.3 | 2 | Salicylic acid | 98.5 | — | 1.63 | 4 |
| Calcium hypophosphite | 99.04 | 20 | 2.5 | 9 | | 86.4 | — | 0.985 | 4 |
| | 87.27 | 20 | 3.2 | 9 | Santonin | NS | 15 | 6 | 5 |
| Calcium oleate | 45 | 15 | 1.18 | 6 | Sodium arsenate | NS | 15 | 50 | 8 |
| Calcium sulfate | NS | 15 | 5.17 | 8 | | 99.04 | 20 | 64 | 9 |
| Calcium sulfide | NS | 15 | 5 | 6 | | 87.27 | 20 | 44 | 9 |
| Cinchonine | NS | 15 | 0.3 | 5 | Sodium bi-borate | 98.5 | — | 111.15 | 4 |
| Cinchonine sulfate | NS | 15 | 6.7 | 5 | | 86.5 | — | 89.36 | 4 |
| Cinnamic aldehyde | NS | 15 | 0.1 | 1 | Sodium bicarbonate | NS | 15 | 8.06 | 8 |
| Codeine hydrochloride | 99.04 | 20 | 11.1 | 9 | Sodium tetraborate (borax) | NS | 15 | 60 | 8 |
| | 87.27 | 20 | 4.7 | 9 | Sodium carbonate (crystals) | NS | 15 | 98.3 | 8 |
| Copper acetate | NS | 15 | 10 | 6 | Sodium chlorate | NS | 15 | 20 | 5 |
| Copper sulfate | NS | 15 | 30 | 6 | Sodium hypophosphite | 99.04 | 20 | 32.7 | 9 |
| Ethyl acetate | 99.04 | 20 | 1.9 | 9 | | 87.27 | 20 | 42.2 | 9 |
| | 87.27 | 20 | 1.8 | 9 | Sodium pyrophosphate | 87.27 | 20 | 9.6 | 9 |
| Ethyl ether | 99.04 | 20 | 0.65 | 9 | Sodium sulfate - 12H ₂ O | 100 | 25 | 8.1 | 10 |
| | 87.27 | 20 | 0.38 | 9 | Stearic acid | 99.04 | 20 | 0.089 | 9 |
| Eugenol | NS | 15 | 0.1 | 1 | | 87.27 | 20 | 0.066 | 9 |
| Ferrous sulfate | NS | 15 | 25 | 6 | Strychnine | NS | 15 | 0.25 | 5 |
| Guaiacol | 99.04 | 20 | 13.1 | 9 | Strychnine nitrate | NS | 15 | 4 | 5 |
| | 87.27 | 20 | 9.05 | 9 | Strychnine sulfate | NS | 15 | 22.5 | 5 |
| Guaiacol carbonate | 99.04 | 20 | 0.043 | 9 | Sulfur | NS | 15 | ca. 0.1 | 8 |
| | 87.27 | 20 | 0.039 | 9 | Tannic acid | NS | 15 | 48.8 | 6 |
| Iodine | NS | 15 | 2 | 8 | Tannin | NS | 15 | 48.83 | 8 |
| Idoform | 95 | 15 | 0.12 | 3 | Tartar emetic | NS | 15 | 5.5 | 5 |
| Iron and potassium tartrate | NS | 15 | 8 | 5 | Theobromine | 99.04 | 20 | 0.028 | 9 |
| Iron lactate | NS | 15 | 16 | 5 | | 87.27 | 20 | 0.017 | 9 |
| Iron oleate | 45 | 15 | 0.71 | 8 | Urea | NS | 15 | 50 | 5 |
| Lead acetate | NS | 15 | 10 | 8 | Zinc chloride | NS | 15 | 49.87 | 8 |
| | 98.5 | — | 143 | 4 | Zinc iodide | NS | 15 | 39.78 | 8 |
| | 86.5 | — | 129.3 | 4 | Zinc sulfate | NS | 15 | 35.18 | 8 |
| Lead sulfate | NS | 15 | 30.3 | 8 | Zinc valerate | 99.04 | 20 | 0.336 | 9 |
| Magnesium oleate | 45 | 15 | 0.94 | 6 | | 87.27 | 20 | 0.382 | 9 |
| Mercuric chloride | NS | 15 | 8 | 8 | | | | | |
| Mercurous chloride | NS | 15 | 7.5 | 5 | | | | | |
| Mercurous cyanide | NS | 15 | 27 | 5 | | | | | |
| Morphine | NS | 15 | 0.45 | 5 | | | | | |
| Morphine acetate | NS | 15 | 20 | 5 | | | | | |
| Morphine hydrochloride | NS | 15 | 20 | 5 | | | | | |
| Novocaine | 99.04 | 20 | 11.2 | 9 | | | | | |
| | 87.27 | 20 | 7.8 | 9 | | | | | |
| Oxalic acid | NS | 15 | 15.1 | 6 | | | | | |
| Pentaerythritol | 100 | 100 | 9.3 | Anon. | | | | | |
| Phenacetin | 99.04 | 20 | 0.47 | 9 | | | | | |
| | 87.27 | 20 | 0.3 | 9 | | | | | |
| Phenol | 99.04 | 20 | 276.4 | 9 | | | | | |
| | 87.27 | 20 | 361.8 | 9 | | | | | |

NS = Glycerine content not specified, probably 95 to 100 percent.

†References for Table

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