

Alcohol	Solubility (g/100 g H ₂ O at 20°C)
Methanol, CH ₃ OH	Soluble in all proportions
Ethanol, CH ₃ CH ₂ OH	Soluble in all proportions
Propanol, CH ₃ CH ₂ CH ₂ OH	Soluble in all proportions
Butanol, CH ₃ (CH ₂) ₂ CH ₂ OH	8.14
Pentanol, CH ₃ (CH ₂) ₃ CH ₂ OH	2.64
Hexanol, CH ₃ (CH ₂) ₄ CH ₂ OH	0.59
Heptanol, CH ₃ (CH ₂) ₅ CH ₂ OH	0.09

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Alcohols With Water Solubility Data

Solubility Data Series, Volume 15: Alcohols with Water is part of a series of books that provides a critical and comprehensive evaluation of solubility data on chemical systems. This volume covers only the binary systems that contain water and a monohydroxy alcohol. This book presents precise data on data sheets in a uniform format preceded for each system by a critical evaluation if there are more than one set of data available. For systems where data from different sources agree ...

Alcohols with Water | ScienceDirect

They dissolve in water in any amount. Starting with the four-carbon butanol the solubility of alcohols is starting to decrease. After the 7-carbon heptanol, alcohols are considered immiscible. The alcohol solubility in water can be observed below. The amounts are in mol/100g of H₂O at 1atm and 25 o C. Alcohol solubility chart

Alcohol solubility - methanol, ethanol, propanol etc. in ...

The mutual solubility and related liquid-liquid equilibria of C 4 alcohols with water are exhaustively and critically reviewed. Reports of experimental determination of solubility in three chemically distinct binary systems that appeared in the primary literature prior to end of 2004 are compiled. For all the systems sufficient data are available to allow critical evaluation. All data are expressed as mass percent and mole fraction as well as the originally reported units. In addition to ...

IUPAC-NIST Solubility Data Series. 82. Alcohols with Water ...

IUPAC-NIST Solubility Data Series. 82. Alcohols with Water—Revised and Updated: Part 3. C6 Alcohols with Water. Journal of Physical and Chemical Reference Data 2007, 36 (2) , 399-443. DOI: 10.1063/1.2383067. , , Marian Goral, Barbara Wisniewska-Goclovska. IUPAC-NIST Solubility Data Series. 82. Alcohols with Water—Revised and Updated: Part 4. C 7 Alcohols with Water. Journal of Physical and ...

Mutual solubility of water and aliphatic alcohols ...

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15 A.F.M. Barton, Alcohols with Water, Pergamon Press, 1984. 16 ... Z. Maczynska, and A. Szafranski. IUPAC-NIST Solubility Data Series. 81. Hydrocarbons with Water and Seawater—Revised and Updated. Part 6, C 8H 8 – C 8H 10 hydrocarbons with water, JPCRD 34, 1489 (2005). 81(7) D.G. Shaw, A. Maczynski, , M. Góral, B. Wisniewska-Goclovska, A. Skrzecz, I. Owczarek, K. Blazej, M-C. Haulait-Pir

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IUPAC-NIST Solubility Database

We report here the water solubility of a number of alcohols (8-15 carbons) and corresponding phthalate and adipate esters of some of these alcohols. Reported water solubility data for these chemicals are rather sparse and/or are highly variable. However, reliable water solubility measurements are critical for evaluating the aquatic toxicity of these chemicals

Slow-stir water solubility measurements of selected ...

The table below provides information on the variation of solubility of different substances (mostly inorganic compounds) in water with temperature, at one atmosphere pressure. Units of solubility are given in grams per 100 millilitres of water (g/100 ml), unless shown otherwise. The substances are listed in alphabetical order. Contents

Solubility table - Wikipedia

IUPAC-NIST Solubility Data Series. 101. Alcohols + Hydrocarbons + Water. Part 1. C 4-C 10 Alcohols Marian Go´ral Institute of Physical Chemistry, Polish Academy of Sciences, 01-224 Warsaw, Poland

IUPAC-NIST Solubility Data Series. 101. Alcohols ...

IUPAC-NIST Solubility Data Series. 82: Alcohols with Water—Revised and Updated: Part 2. C5 Alcohols with Water. C5 Alcohols with Water. Journal of Physical and Chemical Reference Data 2007 , 36 (1) , 133-190.

Mutual solubilities: water-ketones, water-ethers, and ...

Alcohols with water. (Solubility data series.) Publisher: Pergamon . Year: 1984 . Abstract: Evaluated data on binary systems of monohydroxy alcohols and water. Properties: solubility . Compounds: alcohols . UT Libraries Call Number: QD 543 S6629 v.15 . UT Libraries Location: CHEM REF . ISBN Number: 0080252761 . OCLC Number: 10711509 : Find in a Library: WorldCat. The source described above may ...

Alcohols with water. (Solubility data series ...

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Alcohols with Water: Solubility Data Series 1st, Barton, A ...

The aqueous solubility of an n-alcohol is determined by the hydrogen bonds between the hydroxyl group of the n-alcohol and water molecules. In addition to hydrogen bonds, short-chain alcohols ($\leq C 3$) are trapped in the hydrogen bond network and are efficiently miscible in water (Fig. 2A , C 2), whereas long-chain alcohols ($\geq C 4$) are not trapped because they would destroy the network.

Physicochemical Solubility of and Biological Sensitivity ...

The goal of the SDS from the start was to compile all experimental solubility data in the world's reviewed chemistry literature and to critically evaluate this body of data using international teams of experts under the auspices of IUPAC. It was estimated that the effort would require the production of about 100 volumes each treating a chemically related group of systems. In 2016 that ...

Solubility Data Series - IUPAC | International Union of ...

Alcohols with Water (IUPAC Solubility Data): Amazon.es: Barton, Allan F. M.: Libros en idiomas extranjeros

Alcohols with Water (IUPAC Solubility Data): Amazon.es ...

Parameters for cyclohexanol + water and cyclohexene + water pairs were fitted to recommended solubility data, 54, 55 whereas for the cyclohexene + cyclohexanol pair generalized parameters were used...

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