

AZEOTROPIC DATA FOR BINARY MIXTURES

Liquid mixtures having an extremum (maximum or minimum) vapor pressure at constant temperature, as a function of composition, are called azeotropic mixtures, or simply azeotropes. Mixtures that do not show a maximum or minimum are called azotropic. Azeotropes in which the pressure is a maximum are often called positive azeotropes, while pressure-minimum azeotropes are called negative azeotropes. The coordinates of an azeotropic point are the azeotropic temperature t_{az} , pressure P_{az} , and liquid-phase composition, usually expressed as mole fractions. At the azeotropic point, the vapor-phase composition is the same as the liquid-phase composition.

This table gives azeotropic data for a number of binary mixtures at normal atmospheric pressure ($P_{atm} = 101.3 \text{ kPa}$). Component 1 of each mixture is given in bold face. The temperature t_{az} and mole fraction x_1 of component 1 are listed for each choice of component 2.

The components are arranged in a modified Hill order, with substances that do not contain carbon preceding those that do contain carbon.

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Molecular formula	Name	$t_{az}/^\circ\text{C}$	x_1
Water H_2O			
CHCl_3	Trichloromethane	56.1	0.160
CH_2O_2	Formic acid	107.2	0.427
CH_3NO_2	Nitromethane	83.6	0.511
CS_2	Carbon disulfide	42.6	0.109
$\text{C}_2\text{H}_3\text{N}$	Acetonitrile	76.5	0.307
$\text{C}_2\text{H}_5\text{NO}_2$	Nitroethane	87.2	0.624
$\text{C}_2\text{H}_6\text{O}$	Ethanol	78.2	0.096
$\text{C}_4\text{H}_8\text{O}_2$	Ethyl acetate	70.4	0.312
$\text{C}_4\text{H}_{10}\text{O}$	1-Butanol	92.7	0.753
$\text{C}_4\text{H}_{10}\text{O}$	2-Butanol	87	0.601
$\text{C}_5\text{H}_5\text{N}$	Pyridine	93.6	0.755
$\text{C}_5\text{H}_{11}\text{N}$	Piperidine	92.8	0.718
C_5H_{12}	Pentane	34.6	0.054
$\text{C}_6\text{H}_5\text{Cl}$	Chlorobenzene	90.2	0.712
C_6H_6	Benzene	69.3	0.295
$\text{C}_6\text{H}_6\text{O}$	Phenol	99.5	0.981
C_6H_{10}	Cyclohexene	70.8	0.308
C_6H_{12}	Cyclohexane	69.5	0.300
C_6H_{14}	Hexane	61.6	0.221
C_7H_8	Toluene	84.1	0.444
C_7H_{16}	Heptane	79.2	0.452
C_8H_{10}	1,3-Dimethylbenzene	92	0.767
C_8H_{18}	Ethylbenzene	92	0.744
C_8H_{18}	Octane	89.6	0.673
$\text{C}_8\text{H}_{18}\text{O}$	Dibutyl ether	92.9	0.781
C_9H_{20}	Nonane	94.8	0.970
$\text{C}_{12}\text{H}_{27}\text{N}$	Tributylamine	99.7	0.976
Tetrachloromethane CCl_4			
CH_2O_2	Formic acid	66.7	0.569
CH_3NO_2	Nitromethane	71.3	0.660
CH_4O	Methanol	55.7	0.445
$\text{C}_2\text{H}_3\text{N}$	Acetonitrile	65.1	0.566
$\text{C}_2\text{H}_6\text{O}$	Ethanol	65.0	0.615
$\text{C}_3\text{H}_6\text{O}$	Acetone	56.1	0.047
$\text{C}_3\text{H}_8\text{O}$	1-Propanol	73.4	0.820
$\text{C}_4\text{H}_{10}\text{O}$	1-Butanol	76.6	0.951
Formic acid CH_2O_2			
CS_2	Carbon disulfide	42.6	0.253
Nitromethane CH_3NO_2			
CS_2	Carbon disulfide	41.2	0.845
Methanol CH_4O			
$\text{C}_3\text{H}_8\text{O}$	Acetone	55.5	0.198

Azeotropic Data For Binary Mixtures

William M. Haynes



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