

Magnesium chloride

Other names:	magnesium dichloride
Inchi:	InChI=1S/ClH.Mg/h1H;/q;+1/p-1
InchiKey:	FOSCDBCQYQJHPN-UHFFFAOYSA-M
Formula:	ClMg
SMILES:	[Mg]Cl
Mol. weight [g/mol]:	59.76
CAS:	14989-29-8

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.44209e+01
Coeff. B	-1.54199e+04
Coeff. C	-1.12100e+02
Temperature range (K), min.	1051.15
Temperature range (K), max.	1685.15

Sources

Densities and vapor pressures of mixed-solvent desiccant systems containing glycerol and ionic liquids in aqueous salt solutions at 298.15 K: { $\text{N-butylpyrrolidinium chloride}$ + $\text{tri-n-butylphosphonium chloride}$ + water}.

<https://www.doi.org/10.1016/j.jct.2010.04.014>

Densities and apparent molar volumes of myo-inositol in aqueous solutions of binary molar mixtures and ternary molar isentropic compressibility study of cyclohexane and methyl acetate + myo-inositol + KCl MgCl₂ and MgCl₂ + H₂O mixed in KCl MgCl₂ solutions in a highly concentrated region. The densities of solutions of CaCl₂ or MgCl₂ and in a Synthetic Mannan by isopiestic measurements and thermodynamic modelling of the ternary mixtures cyclohexane + MgCl₂ + Pressure, water) system at T = 298.15 phase Equilibria in the Quaternary Systems KCl K₂B₄O₇ K₂SO₄ H₂O and MgCl₂ MgSO₄ MgSO₄·H₂O at the three quaternary systems: The NaCl-MgCl₂-H₂O Equilibrium of Anhydrous MgCl₂-H₂O Phase Systems Determined by Raman Spectroscopy. MgCl₂ in a 2000 g H₂O-Methylacetate solution. The phase diagram of the salts 908.16 to 128.30 K in liquid liquid methyl acetate + methanol system:

<https://www.doi.org/10.1016/j.ijct.2011.03.002>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C14>

<https://www.doi.org/10.1016/j.tca.2009.01.003>

<https://www.doi.org/10.1016/j.tca.2013.08.002>

<https://www.doi.org/10.1021/acs.jced.6b00403>

<https://www.doi.org/10.1021/ie400396s>

<https://www.doi.org/10.1016/j.ijct.2015.07.049>

<https://www.sciencedirect.com/book/9780128029992/the-vaws-handbook-of-vapor-pressure>

<https://www.doi.org/10.1021/acs.jced.6b00926>

<https://www.doi.org/10.1016/j.ijct.2018.12.011>

<https://www.doi.org/10.1021/acs.iced.5b01010>

<https://www.doi.org/10.1021/acs.jced.9b00046>

<https://www.doi.org/10.1016/j.fluid.2014.07.005>

[illegible]

<https://www.doi.org/10.1021/acs.jced.7b00520>
<https://www.doi.org/10.1021/je7002176>
<https://www.doi.org/10.1021/acs.jced.8b01116>
<https://www.doi.org/10.1021/je2013704>
<https://www.doi.org/10.1021/acs.jced.6b00812>
<https://www.doi.org/10.1021/acs.jced.7b00800>
<https://www.doi.org/10.1016/j.jct.2012.02.016>
<https://www.doi.org/10.1016/j.fluid.2014.01.037>
<https://www.doi.org/10.1021/acs.jced.7b00553>
<https://www.doi.org/10.1016/j.jct.2012.05.033>
<https://www.doi.org/10.1021/je060492g>
<https://www.doi.org/10.1021/acs.jced.7b00218>
<https://www.doi.org/10.1021/acs.jced.5b00005>
<https://www.doi.org/10.1021/acs.jced.5b00624>
<https://www.doi.org/10.1016/j.jct.2011.06.024>
<https://www.doi.org/10.1021/je9008359>
<https://www.doi.org/10.1016/j.fluid.2015.11.033>
<https://www.doi.org/10.1021/je300886k>
<https://www.doi.org/10.1021/je500700d>
<https://www.doi.org/10.1016/j.tca.2012.02.017>
<https://www.doi.org/10.1021/je100111w>
<https://www.doi.org/10.1021/acs.jced.7b00894>
<https://www.doi.org/10.1021/je050048y>
<https://www.doi.org/10.1021/acs.jced.8b00675>
<https://www.doi.org/10.1021/je500623w>
<https://www.doi.org/10.1021/je700732u>
<https://www.doi.org/10.1021/je700017b>
<https://www.doi.org/10.1021/acs.jced.6b00024>
<https://www.doi.org/10.1016/j.jct.2014.03.001>
<https://www.doi.org/10.1021/acs.jced.6b00952>
<https://www.doi.org/10.1021/je800438p>
<https://www.doi.org/10.1016/j.tca.2013.10.019>
<https://www.doi.org/10.1016/j.fluid.2007.04.026>
<https://www.doi.org/10.1021/je034168m>
<https://www.doi.org/10.1021/je500946w>
<https://www.doi.org/10.1021/acs.jced.6b00828>
<https://www.doi.org/10.1021/acs.jced.8b00605>
<https://www.doi.org/10.1016/j.fluid.2014.10.014>
<https://www.doi.org/10.1021/acs.jced.6b00960>
<https://www.doi.org/10.1021/acs.jced.7b00459>
<https://www.doi.org/10.1021/je101012n>
<https://www.doi.org/10.1021/acs.jced.6b00981>
<https://www.doi.org/10.1021/acs.jced.5b00639>

Density and vapour pressure of
mixed-solvent desiccant systems
Solubility Equilibria in the System glycol
propylene glycol + dipropylene glycol
Mg(OH)₂ + MgCl₂ + H₂O from 298 K to
398 K (MgCl₂ + magnesium
chloride + water):

<https://www.doi.org/10.1016/j.jct.2014.08.005>

<https://www.doi.org/10.1021/acs.jced.6b00928>

Legend

pvap: Vapor pressure

Latest version available from:

<https://www.chemeo.com/cid/10-745-3/Magnesium-chloride.pdf>

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