

Potassium bromide

Inchi: InChI=1S/BrH.K/h1H;/q;+1/p-1
InchiKey: IOLCXVTUBQKXJR-UHFFFAOYSA-M
Formula: Br2K2
SMILES: [Br-].[K+]
Mol. weight [g/mol]: 238.00
CAS: 11127-10-9

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
econd	190.00	S/m	1131.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	191.00	S/m	1136.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	194.00	S/m	1151.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	196.00	S/m	1169.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	200.00	S/m	1190.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides

econd	201.00	S/m	1198.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	202.00	S/m	1210.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	203.00	S/m	1221.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	204.00	S/m	1229.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	204.00	S/m	1233.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	205.00	S/m	1237.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	205.00	S/m	1245.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$

Coeff. A	1.54973e+01
Coeff. B	-1.67888e+04
Coeff. C	-1.09920e+02
Temperature range (K), min.	1068.15
Temperature range (K), max.	1653.15

Sources

Densities of aqueous solutions containing model compounds of amino acid cationic properties of MOPS, MOPSO, and MOBS in water and in aqueous electrolyte solutions: Quaternary Systems NaBr-KBr-MgBr₂-H₂O and Electrolyte-Glycerol-H₂O Measurement and Prediction of Solution Parameters for Aqueous Mixtures (M + NaBr + KBr) : Temperature Dependence of Vapor Pressures over Saturated Aqueous Solutions of Biological Mixtures with electrolytes: Densities of aqueous mixtures of the solid-liquid phase equilibria in Quaternary Systems NaBr-KBr-MgBr₂-H₂O + NaBr-KBr-MgBr₂-H₂O at 0.1 MPa: Volumes of aqueous KBr solutions at 298.15 K: Conductometric Study of Some Metals: Halides in Glycerol + Water Mixtures: Solid Liquid Equilibria in the Ternary Systems KBr-CaBr₂-H₂O and NaBr-CaBr₂-H₂O at 0.1 MPa: Modeling aqueous electrolyte/amino-acid solutions with Measurements of (Solid + Liquid) Phase Equilibria in the Quaternary System NaBr-KBr-MgBr₂-H₂O and Aqueous NaBr and KBr and Ternary Liquid-Liquid Equilibria with Glycerol Electrolytes Temperature-Dependent Phase Equilibria of Ternary System KBr-LiBr-H₂O at 273 K: Measurement of the velocity in dissolving alkali halide melts: Density of Methanolic Alkali Halide Salt Solutions by Experiment and Molecular Simulation and Thermodynamics of Solute-Solvent Interactions of Some Alkali Halides in Aqueous Solutions Formed by Acetone and Water in the Temperature Range between 288.15 and 318.15 K: The solubility of alkali bromides in dependence of the density of aqueous alkali halide salt solutions by experiment and molecular simulation: Solubility of Molecular Alkali Bromides in Aqueous Binary Mixtures and Calculation of the Solubility of Alkali Bromides in the quaternary System NaBr-KBr-MgBr₂-H₂O at 0.1 MPa: Determination of Activity Coefficients, and Excess Gibbs Free Energy Functions of Aqueous Fluorides with potassium and rubidium halides: Determination of the osmotic and activity coefficients of the γ KBr + γ NaBr-H₂O in the ternary systems: KBr-MgBr₂-H₂O and NaBr-MgBr₂-H₂O at 0.1 MPa: K:

<https://www.doi.org/10.1016/j.jct.2006.11.014>
<https://www.doi.org/10.1016/j.tca.2010.04.004>
<https://www.doi.org/10.1021/acs.jced.6b00799>
<https://www.doi.org/10.1021/acs.jced.7b00503>
<https://www.doi.org/10.1021/je200419x>
<https://www.doi.org/10.1021/je800963g>
<https://www.doi.org/10.1016/j.jct.2008.12.011>
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<https://www.doi.org/10.1016/j.fluid.2006.05.015>
<https://www.doi.org/10.1007/s10765-006-0096-4>
<https://www.doi.org/10.1021/je500681m>
<https://www.doi.org/10.1016/j.jct.2013.08.018>
<https://www.doi.org/10.1021/acs.jced.7b00273>
<https://www.doi.org/10.1021/je049814b>
<https://www.doi.org/10.1021/je101012n>
<https://www.doi.org/10.1021/acs.jced.9b00517>
<https://www.doi.org/10.1016/j.jct.2010.10.021>
<https://www.doi.org/10.1021/je5009944>
<https://www.doi.org/10.1021/acs.jced.7b00647>
<https://www.doi.org/10.1021/je8003639>
<https://www.doi.org/10.1016/j.fluid.2007.03.008>
<https://www.doi.org/10.1021/je500420g>
<https://www.doi.org/10.1021/je900709n>
<https://www.doi.org/10.1016/j.fluid.2017.07.019>
<https://www.doi.org/10.1021/acs.jced.7b00460>
<https://www.doi.org/10.1016/j.jct.2012.02.015>
<https://www.doi.org/10.1016/j.jct.2013.03.003>
<https://www.doi.org/10.1016/j.fluid.2015.02.015>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C11127109&Units=SI>

Vapor Pressures of Aqueous Solutions with Mixed Salts of NaCl + KBr and NaBr Equilibria in the Systems CaBr₂-MgBr₂-H₂O and NaBr-KBr-SrBr₂ Solubility of NaBr, NaCl, and KBr in Surfactant Aqueous Solutions:

<https://www.doi.org/10.1021/je020144o>
<https://www.doi.org/10.1021/acs.jced.5b00112>
<https://www.doi.org/10.1021/je100905g>

Study of bromide salts solubility in the
(m1KBr + m2CaBr2)(aq) system at T =
Effect of NaBr, KCl, KBr and MgCl2 on
viscosity and aqueous (glycine and)
Effect of temperature and 15 KBr +
concentration of KBr or KNO3 on the
Osmotic pressure and density of
aqueous solutions of potassium
bromide and ionic salts. Densities and
solubilities of aqueous and electrolyte
solutions. Handbook of Vapor
Pressure

<https://www.doi.org/10.1016/j.jct.2012.06.006>

<https://www.doi.org/10.1021/je050048y>

<https://www.doi.org/10.1021/je1012789>

<https://www.doi.org/10.1016/j.fluid.2015.05.025>

<https://www.doi.org/10.1021/je900260g>

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

Pressure (hydroxymethyl)aminomethane and
N-[2-(hydroxymethyl)-4-amino-butanesulfonic
Acid:

Legend

econd: Electrical conductivity

vpap: Vapor pressure

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