

potassium bromide

Inchi: InChI=1S/BrH.K/h1H;/q;+1/p-1
InchiKey: IOLCXVTUBQKXJR-UHFFFAOYSA-M
Formula: BrK
SMILES: [Br-].[K+]
Mol. weight [g/mol]: 119.00
CAS: 7758-02-3

Physical Properties

Property code	Value	Unit	Source
ea	0.64 ± 0.01	eV	NIST Webbook
ea	0.61	eV	NIST Webbook
ie	7.90 ± 0.10	eV	NIST Webbook
ie	7.85	eV	NIST Webbook
ie	7.90 ± 0.10	eV	NIST Webbook
ie	7.90 ± 0.10	eV	NIST Webbook
ie	8.82 ± 0.04	eV	NIST Webbook
ie	8.10	eV	NIST Webbook

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
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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

Solid-Liquid Phase Equilibria of Ternary System KBr-LiBr-H₂O at 273 and 300 K and Thermodynamics of Solute-Solvent Interactions of Some Nitro-Water in Aqueous Sodium Bromide and Potassium Bromide Solution: Effect of NaBr, KCl, KBr, and MgCl₂ on Viscosities of Aqueous Glycine and Solid-Liquid Equilibria in the Systems CaBr₂-MgBr₂-H₂O and NaBr-KBr-SrBr₂ and Thermodynamic Investigation of PrBr₃-MBr₃ Liquid Mixtures (M = Na, K, Rb, Cs) : Isoopiestic determination of the osmotic and activity coefficients of the (yKBr + Elactrolite) Conductivity of Electrolytes Found In Natural Waters from (5 to 90) Degrees and Ionic Salts: Densities and Solubilities of Aqueous and Electrolyte Measuring and modeling aqueous electrolyte/amine and solutions with MOBS and properties of MES, MOBS, MOBSO, and MOBS in water and in aqueous urea and calculations of solid-liquid equilibria in the quaternary Measurments of Solid-Liquid (298 Phase Equilibria in the Quaternary System NaBr-KBr-MgBr₂-H₂O and Thermodynamic Properties: SrBr₂ + H₂O and KBr + SrBr₂ + H₂O at 1-323 K: Aqueous NaBr and KBr and Ternary Aqueous NaBr-KBr-SrBr₂ and Some Metal Halides in Glycerol + Water Mixtures and Solid-Liquid Equilibria in the Ternary Systems KBr-CaBr₂-H₂O and NaBr-CaBr₂-H₂O Handbook of Vapor Pressure: Densities of aqueous solutions containing model compounds of amino acids and ionic salts at T = 298.15 K:

<https://www.doi.org/10.1021/acs.jced.9b00517>
<https://www.doi.org/10.1021/acs.jced.7b00647>
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7758023&Units=SI>
<https://www.doi.org/10.1021/je050048y>
<https://www.doi.org/10.1021/acs.jced.5b00112>
<https://www.doi.org/10.1021/je200419x>
<https://www.doi.org/10.1016/j.jct.2013.03.003>
<https://www.doi.org/10.1021/je101012n>
<https://www.doi.org/10.1021/je900260g>
<https://www.doi.org/10.1016/j.jct.2013.08.018>
<https://www.doi.org/10.1016/j.tca.2010.04.004>
<https://www.doi.org/10.1016/j.fluid.2017.07.019>
<https://www.doi.org/10.1021/acs.jced.7b00273>
<https://www.doi.org/10.1016/j.fluid.2015.05.025>
<https://www.doi.org/10.1021/je049814b>
<https://www.doi.org/10.1007/s10765-006-0096-4>
<https://www.doi.org/10.1021/je500681m>
<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>
<https://www.doi.org/10.1016/j.jct.2006.11.014>

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.