

Rubidium bromide

Other names:rubidium monobromide

Inchi:InChI=1S/BrH.Rb/h1H;/q;+1/p-1

InchiKey:JAAGVIUFBAHDMU-UHFFFAOYSA-M

Formula:RbBr

SMILES:[Br-].[Rb+]

Mol. weight [g/mol]:165.37

CAS:7789-39-1

Physical Properties

Property code	Value	Unit	Source
ie	7.94 ± 0.03	eV	NIST Webbook
ie	7.80 ± 0.10	eV	NIST Webbook
ie	7.80 ± 0.10	eV	NIST Webbook
ie	7.94 ± 0.03	eV	NIST Webbook
ie	8.62 ± 0.04	eV	NIST Webbook
ie	8.00	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
econd	151.00	S/m	1173.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	152.00	S/m	1184.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides

econd	153.00	S/m	1194.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	154.00	S/m	1206.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	154.00	S/m	1217.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	155.00	S/m	1232.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	156.00	S/m	1244.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	157.00	S/m	1258.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	157.00	S/m	1269.00	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	1.67173e+01
Coeff. B	-1.90841e+04
Coeff. C	-3.58100e+01
Temperature range (K), min.	1054.15
Temperature range (K), max.	1613.15

Sources

Ultrasound velocity in dissolving alkali halide melts: <https://www.doi.org/10.1016/j.jct.2010.10.021>
 Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium fluorides: <https://www.doi.org/10.1016/j.jct.2012.02.015>
 NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C7789391&Units=SI>
 Density of Methanolic Alkali Halide Salt Solutions by Experiment and Molecular Simulation: <https://www.doi.org/10.1021/jc5009944>
 Calorimetric Investigation of PrBr₃-MBr Liquid Mixtures (M = Na, K, Rb, Cs) : <https://www.doi.org/10.1021/jc200419x>
 Temperature Dependence of the Density of Aqueous Alkali Halide Salt Solutions by Experiment and Molecular Simulation: <https://www.doi.org/10.1021/jc500420g>
 Densities and Viscosities of Rubidium Bromide in Dimethyl Sulfoxide + Water Mixtures in the Temperature Range t = 25 to 45 deg C: <https://www.doi.org/10.1021/jc9001027>
 The Yaws Handbook of Vapor Pressure: <https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>
 Cheméo Relay (1.0):
 Cheméo Relay (1.0, beta):

Legend

econd: Electrical conductivity
 ie: Ionization energy
 pvap: Vapor pressure

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