

rubidium iodide

Other names:	rubidium iodide (RbI) rubidium monoiodide
Inchi:	InChI=1S/HI.Rb/h1H;/q;+1/p-1
InchiKey:	WFUBYPSJBBQSOU-UHFFFAOYSA-M
Formula:	IRb
SMILES:	[I-].[Rb+]
Mol. weight [g/mol]:	212.37
CAS:	7790-29-6

Physical Properties

Property code	Value	Unit	Source
tf	923.15	K	The phase diagram of the RbF-RbI system

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
econd	120.00	S/m	1126.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	122.00	S/m	1154.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides
econd	124.00	S/m	1166.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides

econd	126.00	S/m	1188.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	127.00	S/m	1198.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	128.00	S/m	1210.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	128.00	S/m	1216.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	130.00	S/m	1233.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	132.00	S/m	1248.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	133.00	S/m	1260.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	133.00	S/m	1266.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	
econd	135.00	S/m	1297.00	Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides	

econd	136.00	S/m	1309.00	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	1.56416e+01
Coeff. B	-1.62098e+04
Coeff. C	-1.02640e+02
Temperature range (K), min.	1021.15
Temperature range (K), max.	1573.15

Sources

The phase diagram of the RbF-RbI system:	https://www.doi.org/10.1016/j.tca.2008.03.014
Temperature Dependence of the Density of Aqueous Alkali Halide Salt Solutions by Experiment and Molecular Simulation:	https://www.doi.org/10.1021/je500420g
Densities of Methanolic Alkali Halide Salt Solutions by Experiment and Molecular Simulation:	https://www.doi.org/10.1021/je5009944
The Yaws Handbook of Vapor Pressure:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7790296&Units=SI
Ultrasound velocity in dissolving alkali halide melts:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Liquid + liquid equilibrium in mixtures of lithium fluoride with potassium and rubidium halides:	https://www.doi.org/10.1016/j.jct.2010.10.021
	https://www.doi.org/10.1016/j.jct.2012.02.015

Legend

econd:	Electrical conductivity
pvap:	Vapor pressure
tf:	Normal melting (fusion) point

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