

# rubidium chloride

Other names:	rubidium chloride (RbCl) rubidium monochloride
Inchi:	InChI=1S/ClH.Rb/h1H;/q;+1/p-1
InchiKey:	FGDZQCVHDSGLHJ-UHFFFAOYSA-M
Formula:	ClRb
SMILES:	[Cl-].[Rb+]
Mol. weight [g/mol]:	120.92
CAS:	7791-11-9

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
rhos	2578.40	kg/m3	903.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point
rhos	2573.50	kg/m3	913.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point
rhos	2567.80	kg/m3	923.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point
rhos	2562.20	kg/m3	933.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point
rhos	2556.10	kg/m3	943.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point
rhos	2551.70	kg/m3	953.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point



The Yaws Handbook of Vapor Pressure:  
Solid Liquid Equilibrium (SLE) of the N,N-Dimethylacetamide (DMA) + MCl (M = Na, K, Rb, Cs) and H<sub>2</sub>O ternary systems at intermediate temperatures: MgBr<sub>2</sub>/H<sub>2</sub>O, SrBr<sub>2</sub>/H<sub>2</sub>O and BaBr<sub>2</sub>/H<sub>2</sub>O; indices for the ternary systems Simple solid-liquid phase equilibrium for the ternary system (NaCl + RbCl + H<sub>2</sub>O) at pressures of 0.1, 298.15 and 308.15) NaRb[B<sub>4</sub>O<sub>5</sub>(OH)<sub>4</sub>]·4H<sub>2</sub>O: Thermodynamics of complexation of aqueous 18-crown-6 with rubidium and cesium ions: Apparent molar volumes and partial molal heat capacities of aqueous solutions of Na<sup>+</sup>, and refractive indices for the same Systems Na, K, and Rb salts of DMA, DMAc, DMSO, and THF: Thermodynamic properties of NaCl, KCl, and RbCl from 0 to 300 °C: Thermodynamic properties of aqueous lithium chloride: Equilibria of formation and lattice enthalpies of alkali metal acetates (15) K thermodynamics and phase equilibrium of the high concentration NaCl solution Aqueous solution system KCl-RbCl-H<sub>2</sub>O from T = 298.15 K to T = 1 temperature Dependence of the Density of Aqueous Alkali Halide Salt Thermodynamic studies of (RbCl + CsF) and (CsF + CsCl + H<sub>2</sub>O) ternary systems from potentiometric measurements at T = 298.2 K:

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

<https://www.doi.org/10.1021/je400959n>

<https://www.doi.org/10.1021/acs.jced.6b00024>

<https://www.doi.org/10.1016/j.jct.2010.01.017>

<https://www.doi.org/10.1016/j.jct.2016.12.007>

<https://www.doi.org/10.1016/j.tca.2006.05.001>

<https://www.doi.org/10.1016/j.jct.2005.05.005>

<https://www.doi.org/10.1021/acs.jced.5b01043>

<https://www.doi.org/10.1021/je200443t>

<https://www.doi.org/10.1016/j.fluid.2014.01.037>

<https://www.doi.org/10.1016/j.jct.2004.01.004>

<https://www.doi.org/10.1016/j.tca.2004.11.004>

<https://www.doi.org/10.1016/j.jct.2016.12.003>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7791119&Units=SI>

<https://www.doi.org/10.1021/je500420g>

<https://www.doi.org/10.1016/j.jct.2016.08.014>

## Legend

**pvap:** Vapor pressure  
**rhos:** Solid Density

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<https://www.chemeo.com/cid/15-247-1/rubidium-chloride.pdf>

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