

# rubidium fluoride

Other names:	rubidium fluoride (RbF) rubidium monofluoride
Inchi:	InChI=1S/FH.Rb/h1H;/q;+1/p-1
InchiKey:	AHLATJUETSFVIM-UHFFFAOYSA-M
Formula:	FRb
SMILES:	[F-].[Rb+]
Mol. weight [g/mol]:	104.47
CAS:	13446-74-7

## Physical Properties

Property code	Value	Unit	Source
tf	1063.15	K	The phase diagram of the RbF-RbI system

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.22997e+01
Coeff. B	-7.90705e+03
Coeff. C	-6.53770e+02
Temperature range (K), min.	1194.15
Temperature range (K), max.	1683.15

## Sources

- Activity Coefficients of RbF in the RbF + RbBr + H<sub>2</sub>O and RbF + RbNO<sub>3</sub> + H<sub>2</sub>O Ternary Systems Investigated by the Rb<sup>+</sup> Ion-Selective Method at 298.15 K + Aqueous Systems by Potentiometric Measurements of the Rb<sup>+</sup> Ion-Selective Electrode in the RbF-H<sub>2</sub>O System by Potentiometric Measurements at 298.15 K  
<https://www.doi.org/10.1021/acs.jced.6b00398>  
<https://www.doi.org/10.1016/j.fluid.2016.11.006>  
<https://www.doi.org/10.1021/je200178b>  
<https://www.doi.org/10.1021/je500420g>  
Density of Aqueous Alkali Halide Salt Solutions by Experiment and Molecular Simulation:

The Yaws Handbook of Vapor

Pressure:

The phase diagram of the RbF-RbI

system:

Activity Coefficients of RbF in Urea

Water and Formamide Water Mixtures

NIST Webbook Potentiometric Measurements:

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

<https://www.doi.org/10.1016/j.tca.2008.03.014>

<https://www.doi.org/10.1021/acs.jced.5b00484>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C13446747&Units=SI>

Thermodynamic studies of (RbF + RbCl

+ H<sub>2</sub>O) and (CsF + CsCl + H<sub>2</sub>O) ternary

systems from potentiometric

measurements at T = 298.2 K:

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

## Legend

**pvap:** Vapor pressure

**tf:** Normal melting (fusion) point

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