

potassium fluoride

Other names:	potassium fluoride (KF) potassium monofluoride potassium monofluoride (KF)
Inchi:	InChI=1S/FH.K/h1H;/q;+1/p-1
InchiKey:	NROKBHXJSPEDAR-UHFFFAOYSA-M
Formula:	FK
SMILES:	F[K]
Mol. weight [g/mol]:	58.10
CAS:	7789-23-3

Physical Properties

Property code	Value	Unit	Source
ea	0.23	eV	NIST Webbook
ea	1.50	eV	NIST Webbook
ea	1.04 ± 0.21	eV	NIST Webbook
ea	1.26	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.55306e+01
Coeff. B	-1.77904e+04
Coeff. C	-1.44830e+02
Temperature range (K), min.	1158.15
Temperature range (K), max.	1775.15

Sources

Electrical Conductivity of Electrolytes Found In Natural Waters from (5 to 90) °C	https://www.doi.org/10.1021/je101012n
Density of Methanolic Alkali Halide Salt Solutions by Experiment and Molecular Simulation	https://www.doi.org/10.1021/je5009944
liquid equilibrium in the ternary systems triethylene glycol + salts + water at different temperatures;	https://www.doi.org/10.1016/j.fluid.2009.10.020
NIST Webbook	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7789233&Units=SI
experiment and correlation: Physicochemical properties of the system(LiF + NaF + KF(eut.) + NaF) at different temperatures	https://www.doi.org/10.1016/j.jct.2014.03.024
Temperature Dependence of the Density of Aqueous Alkali Halide and Sulfate Systems	https://www.doi.org/10.1021/je500420g
Surface Tension Experiment and Molecular Simulation of Nitric Acid From Acid Waste Using the Salt Effect on Vapor-Liquid Equilibrium	https://www.doi.org/10.1007/s10765-010-0904-8
MOLECULAR DYNAMIC INTERACTIONS OF POTASSIUM FLUORIDE IN AQUEOUS SOLUTION	https://www.doi.org/10.1016/j.tca.2011.08.013
DIFFERENTIAL SOLID-FLUID SOLUTIONS AT CRYSTALLIZATION TEMPERATURES OF THE KF + NaF ALF3-BASED Electrolyte	https://www.doi.org/10.1021/acs.jced.8b00157
Surface Tension and Density of the KF + NaF ALF3-Based Electrolyte	https://www.doi.org/10.1021/je2005825

Legend

ea: Electron affinity
vpap: Vapor pressure

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