potassium chloride

Inchi: InChI=1S/CIH.K/h1H;/q;+1/p-1

InchiKey: WCUXLLCKKVVCTQ-UHFFFAOYSA-M

Formula: CIK

SMILES: [CI-].[K+] **Mol. weight [g/mol]:** 74.55

CAS: 7447-40-7

Physical Properties

Property code	Value	Unit	Source
ea	0.58 ± 0.01	eV	NIST Webbook
ea	0.63	eV	NIST Webbook
ea	1.27	eV	NIST Webbook
ie	8.40 ± 0.10	eV	NIST Webbook
ie	10.50	eV	NIST Webbook
ie	8.30	eV	NIST Webbook
ie	8.40 ± 0.10	eV	NIST Webbook
ie	10.10	eV	NIST Webbook
ie	8.00 ± 0.30	eV	NIST Webbook
ie	8.70	eV	NIST Webbook
tt	1045.15	K	Fusion characterization of biomass ash

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
rhos	1805.80	kg/m3	973.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point
rhos	1803.60	kg/m3	983.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point

rhos	1800.60	kg/m3	993.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	1797.10	kg/m3	1003.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	1794.50	kg/m3	1013.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	1793.60	kg/m3	1023.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	1793.60	kg/m3	1033.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	1796.60	kg/m3	1043.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
srf	0.09	N/m	1230.00	Surface tension of light rare earth fluoride molten salts electrolytesystem	

Correlations

Information Value

Property code	pvap		
Equation	ln(Pvp) = A + B/(T + C)		
Coeff. A	1.39492e+01		
Coeff. B	-1.33788e+04		
Coeff. C	-2.55170e+02		
Temperature range (K), min.	1044.00		
Temperature range (K), max.	3470.00		

Sources

solutions at 298.15 K and 308.15 K:

https://www.doi.org/10.1021/je900351t Transport Properties in 1,4-Dioxane + Water + Saturated KCI Critical Mixture https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure Eightenvity Solubility Data in the System KCI + https://www.doi.org/10.1021/je800855p K2CrO4 + H2O: Surface Tension of Glycine, Alanine, Surface Tension of Glycine, Alanine, Aminobutyric Acid, Norvaline, and Rolfield Methodistry of the Marking of t https://www.doi.org/10.1021/acs.jced.7b00433 https://www.doi.org/10.1021/acs.jced.7b00978 https://www.doi.org/10.1016/j.jct.2014.05.019 https://www.doi.org/10.1016/j.fluid.2016.05.029 https://www.doi.org/10.1016/j.tca.2008.10.023 https://www.doi.org/10.1016/j.tca.2013.10.019 https://www.doi.org/10.1021/je060430q https://www.doi.org/10.1016/j.tca.2013.08.002 isentropic compressibility study of http://webbook.nist.gov/cgi/cbook.cgi?ID=C7447407&Units=SI agueous KCI or MgCl2 solutions at Selidal inuite Phase acquilibra of the KH2PO4-KCI-H3PO4-H2O and https://www.doi.org/10.1021/acs.jced.8b00081 Kheeprodycorogeneodelingocsystems at https://www.doi.org/10.1016/j.jct.2013.12.017 salinaus phosphate selutions II. Ternary Viscontines (L-alanine-, L-proline, L-valine, L-leucine + aqueous https://www.doi.org/10.1016/j.jct.2008.07.019 The profine of the profines of isopropanol + n-heptane and is https://www.doi.org/10.1016/j.fluid.2011.01.026 https://www.doi.org/10.1016/j.fluid.2007.04.026 https://www.doi.org/10.1021/acs.jced.9b00490 olubility of Marbofloxacin in 12 Pure

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https://www.doi.org/10.1021/je900260g

https://www.doi.org/10.1021/acs.jced.8b01248

Legend

Electron affinity ea: ie: Ionization energy pvap: Vapor pressure rhos: Solid Density srf: **Surface Tension**

Triple Point Temperature tt:

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