potassium chloride

Inchi: InChI=1S/ClH.K/h1H;/q;+1/p-1
InchiKey: WCUXLLCKKVVCTQ-UHFFFAOYSA-M
Formula: ClK
SMILES: [Cl-].[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	1793.60	kg/m3	1023.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point
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	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

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Legend

ea:	Electron affinity
ie:	Ionization energy
pvap:	Vapor pressure
rhos:	Solid Density
srf:	Surface Tension
tt:	Triple Point Temperature