sodium chloride

Other names:	Salt
Inchi:	InChI=1S/CIH.Na/h1H;/q;+1/p-1
InchiKey:	FAPWRFPIFSIZLT-UHFFFAOYSA-M
Formula:	CINa
SMILES:	[Cl-].[Na+]
Mol. weight [g/mol]:	58.44
CAS:	7647-14-5

Physical Properties

Property code	Value	Unit	Source
ea	0.73 ± 0.01	eV	NIST Webbook
ea	0.77	eV	NIST Webbook
ea	1.28	eV	NIST Webbook
ie	9.20	eV	NIST Webbook
ie	10.00	eV	NIST Webbook
ie	8.90 ± 0.10	eV	NIST Webbook
ie	8.92 ± 0.06	eV	NIST Webbook
ie	9.80 ± 0.04	eV	NIST Webbook
ie	9.00	eV	NIST Webbook
tf	1074.00	К	Ultrasonic velocity for an equimolar mixture of molten AgI and NaCI in the biphasic region
tf	1074.00	К	Densities of a dissolving mixture of molten (AgI + NaCI)
tt	1074.00	K	Phase-boundary potential in the two-liquid-phase (AgI + NaCI) system

Temperature Dependent Properties

Property code

Value

Unit

Temperature [K]

Source

rhos	1931.20	kg/m3	1013.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	1905.80	kg/m3	1023.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	1890.40	kg/m3	1033.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	1888.30	kg/m3	1043.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	1882.00	kg/m3	1053.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	1884.90	kg/m3	1063.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	1889.80	kg/m3	1073.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.63209e+01
Coeff. B	-1.94159e+04
Coeff. C	-7.90800e+01
Temperature range (K), min.	1073.90
Temperature range (K), max.	1738.20

Sources

Solubility of Sodium

4-Nitrobenzenesulfonate in Binary House in the second sec

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Aggregation of sodium salt of ibuprofen and sodium taurocholate solution and solution and control and con

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Systems of Water + Glucose + Sodium the Mixture of

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aqueous solutions of sodiumchloride at different temperatures and at atmospheric pressure:

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Experimental Investigation of the Influence of NaCl on the Vapor-Liquid Aqueous Salt Solutions from (280 to 340) perature and Concentration Dependence of Apparent Molar SeluhiesvaActwsvocretsoewacand

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ea:	Electron affinity
ie:	Ionization energy
pvap:	Vapor pressure
rhos:	Solid Density
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature

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