sodium chloride

Other names: Salt
Inchi: InChI=1S/ClH.Na/h1H;/q;+1/p-1
InchiKey: FAPWRFPIFSIZLT-UHFFFAOYSA-M
Formula: ClNa
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	K	Ultrasonic velocity for an equimolar mixture of molten AgI and NaCl in the biphasic region
tf	1074.00	K	Densities of a dissolving mixture of molten (AgI + NaCl)
tt	1074.00	K	Phase-boundary potential in the two-liquid-phase (AgI + NaCl) 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

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Volumetric, Viscometric and Spectroscopic Approach to Study the Solvation Behavior of Xanthine Drugs in Aqueous Solutions of NaCl at T = 288.15-318.15 K and at p = 101.325 kPa:	https://www.doi.org/10.1021/acs.jced.6b00273
Mean Activity Coefficients of NaCl in the Mixture of [illegible] + H2O at 298.15 K:	https://www.doi.org/10.1021/acs.jced.7b00278
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Solubility Measurement and Modeling for the NaCl-NH4Cl-Monoethylene Glycol-H2O System from (278 to 353) K:	https://www.doi.org/10.1021/acs.jced.5b00053
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Enthalpies of Dilution of (2S,3R,4R,5R)-Hexane-1,2,3,4,5,6-hexol in Water and Aqueous Sodium Chloride Solutions at T = (293.15 to 318.15) K:	https://www.doi.org/10.1021/je1007394
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Solubilities of MCl (M = Na, K) in Aqueous Systems Containing the Ionic Liquid [Bmim]Cl from (298.15 to 343.15) K:	https://www.doi.org/10.1021/je1010592
Measurement and Correlation of Surface Tension for Single Aqueous Electrolyte Solutions:	https://www.doi.org/10.1007/s10765-010-0725-9
Densities of the NaNO3 + NaCl + H2O and NaNO3 + KCl + H2O Systems and Their Correlation with the Pitzer Model:	https://www.doi.org/10.1021/je800638f
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Legend

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