

sodium iodide

Inchi: InChI=1S/HI.Na/h1H;/q;+1/p-1
InchiKey: FVAUCKIRQBBSSJ-UHFFFAOYSA-M
Formula: INa
SMILES: [Na]I
Mol. weight [g/mol]: 149.89
CAS: 7681-82-5

Physical Properties

Property code	Value	Unit	Source
ea	0.87 ± 0.10	eV	NIST Webbook
ie	7.62 ± 0.02	eV	NIST Webbook
ie	7.60	eV	NIST Webbook
ie	8.20 ± 0.10	eV	NIST Webbook
ie	7.80 ± 0.40	eV	NIST Webbook
ie	7.60 ± 0.10	eV	NIST Webbook
ie	7.60 ± 0.10	eV	NIST Webbook
ie	7.64 ± 0.02	eV	NIST Webbook
ie	7.64	eV	NIST Webbook
ie	8.00 ± 0.30	eV	NIST Webbook
ie	8.70 ± 0.30	eV	NIST Webbook
ie	8.00	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.61525e+01
Coeff. B	-1.69516e+04
Coeff. C	-1.07310e+02
Temperature range (K), min.	1040.15
Temperature range (K), max.	1577.00

Sources

Density of ethanolic alkali halide salt solutions by experiment and molecular simulation: A thermodynamic study of some alkali metal halides in (dimethyl sulfoxide + investigation of Surface Properties for Electrolyte Solutions: Measurement and Prediction of Surface Tension for Pressure-Concentrated Electrolyte Solutions: Excess volumes and excess heat capacities of (1,2-alkanediol + Acetone) mixtures and volume fractions for the NaI + Maltose + Water System and Solution Thermodynamics of NaI in Different Pure Solvents and Binary Mixtures: Density of Aqueous Alkali Halide Salt Solutions by Experiment and Molecular Simulation: The Refractive Index and Molecular Viscosity, pH, and Surface Tension of Potassium Methacrylate Mixtures with Acetone and the Active Index of Mixtures of Dimethylol and propylene carbonate, 2,2,2-Trifluoroethyl 2,3,4,5,6-hexol and 2,2,2-Trifluoroethyl 2,3,4,5,6-hexol in Water and Aqueous Sodium Chloride Solutions in aqueous salt solutions: Density of Methanolic Alkali Halide Salt Solutions by Experiment and Molecular Simulation:

<https://www.doi.org/10.1016/j.fluid.2015.08.005>

<https://www.doi.org/10.1016/j.jct.2009.03.005>

<https://www.doi.org/10.1021/acs.jced.7b00503>

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

<https://www.doi.org/10.1016/j.fluid.2015.05.016>

<https://www.doi.org/10.1021/je700366w>

<https://www.doi.org/10.1021/je300754n>

<https://www.doi.org/10.1021/je500420g>

<https://www.doi.org/10.1021/acs.jced.7b00904>

<https://www.doi.org/10.1016/j.jct.2014.02.021>

<https://www.doi.org/10.1021/je1007394>

<https://www.doi.org/10.1016/j.jct.2011.03.002>

<https://www.doi.org/10.1021/je5009944>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7681825&Units=SI>

<https://www.doi.org/10.1016/j.jct.2006.06.002>

<https://www.doi.org/10.1016/j.jct.2013.08.018>

<https://www.doi.org/10.1021/je9006184>

Study of activity coefficients for sodium iodide in (methanol + benzene) Measuring and modeling aqueous equilibrium electrolyte-amino-acid solutions with conductance Studies of NaCl, KCl, NaBr, NaI, NaBPh₄, and Bu₄NI in Water + 2-Ethoxyethanol Mixtures at 298.15 K:

Legend

ea: Electron affinity
ie: Ionization energy
pvap: Vapor pressure

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