

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. Handbook of Vapor Pressure: Excess volumes and excess heat capacities of (1,2-alkanediol + alcohol) mixtures and volume properties for the NaI + Maltose + Water system by coefficients for sodium iodide in (methanol + benzene) by Steiner. (vapor + liquid) equilibrium measurements: Conductometric study of some alkali metal halides in (dimethyl sulfoxide + ethanol) at 298.15 K: (2S,3R,4R,5R)-Hexane-1,2,3,4,5,6-hexol Solubility, Density and Solution Heat Capacity Data for NaI in Different Pure Solvents and Binary Mixtures: Density of Aqueous Alkali Halide Salt Solutions by Experiment and Molecular Simulation of Surface Properties for Electrolyte Solutions: Measurement and Prediction of Surface Tension of Ionic Liquids in Concentrated Salt Solutions at Equilibrium: Surface Studies of NaCl, KCl, NaBr, NaI, NaBPh₄, and Bu₄Ni in Water: Ionic molar volumes in methanol mixtures with acetonitrile. Measuring the Refractive Index of Polyethylene Glycol, Its Viscosity, pH, and Surface Tension and Potassium Thiocyanate Electrochromic Reactions with PCrMg in Flow Experiments:

<https://www.doi.org/10.1016/j.fluid.2015.08.005>
<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/10.1016/j.jct.2006.06.002>
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7681825&Units=SI>
<https://www.doi.org/10.1016/j.jct.2009.03.005>
<https://www.doi.org/10.1021/je1007394>
<https://www.doi.org/10.1021/je300754n>
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<https://www.doi.org/10.1016/j.jct.2011.03.002>
<https://www.doi.org/10.1021/je9006184>
<https://www.doi.org/10.1016/j.jct.2014.02.021>
<https://www.doi.org/10.1021/acs.jced.7b00904>
<https://www.doi.org/10.1016/j.jct.2013.08.018>

Legend

- ea: Electron affinity
- ie: Ionization energy
- vpav: Vapor pressure

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