

Sodium bromide

Inchi: InChI=1S/BrH.Na/h1H;/q;+1/p-1
InchiKey: JHJLBTNAGRQEKS-UHFFFAOYSA-M
Formula: Br2Na2
SMILES: [Br-].[Na+]
Mol. weight [g/mol]: 205.79
CAS: 12431-56-0

Physical Properties

Property code	Value	Unit	Source
tt	1114.00	K	Study of the NaBr DyBr3 phase diagram by differential thermal analysis

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.53489e+01
Coeff. B	-1.64472e+04
Coeff. C	-1.31070e+02
Temperature range (K), min.	1020.00
Temperature range (K), max.	1720.00

Sources

Solid Liquid Equilibria in the Quaternary Systems Sodium Bromide-Tellurium Dioxide and Sodium Bromide-Tellurium Dioxide-Selenium Dioxide and Some Related Systems. <https://www.doi.org/10.1021/acs.jced.6b00799>

Heat Capacity of Aqueous Sodium Bromide and Sodium Fluoride at Temperatures from (278.15 to 393.15) K and at the Pressure 0.35 MPa. <https://www.doi.org/10.1021/je9006184>

Conductance Studies of NaCl, KCl, NaBr, NaI, NaBPh4, and Bu4NI in Water + 2-Ethoxyethanol Mixtures at 298.15 K: <https://www.doi.org/10.1016/j.jct.2003.10.008>

Some Thermodynamic Properties of Aqueous Sodium Bromide. <https://www.doi.org/10.1021/acs.jced.7b00647>

The Yaws Handbook of Vapor

Pressure:

Self-assembled nano structures of

cationic ester-containing gemini

surfactants: The surfactant structure

and salt effects:

Measurements of the Solid-Liquid

Phase Equilibria in Quinary System

NaBr-KBr-MgBr₂-H₂O and NaBr-KBr-

liquids in aqueous salt solutions at

298.15 K: Conductances of

Tetrabutylammonium Bromide, Sodium

Tetraphenylborate, and Sodium

perchlorate in Select Water (2)

Measuring the Phase Equilibria of the

Phase Equilibria in the Quaternary

System NaBr-KBr-GaBr₂-H₂O and

Two Quaternary Systems NaBr-KBr-FeBr₃-H₂O

and KBr-K₂SO₄-H₂O at T = 323 K:

Tetrabutylammonium Bromide, Sodium

Tetraphenylborate, and Sodium

bromide in magnesium aspartate water

mixtures: A study of the thermodynamic

properties of NaBr, NaCl, Na₂SO₄ and H₂O

at 298.15 K and the thermodynamic

Modeling Study on Solid and Liquid

Solid-Liquid Equilibria in the Systems

GaBr₂-MgBr₂-H₂O and NaBr-KBr-SrBr₂

at 323 K: Solution Properties of Some

Alkali Bromides in Aqueous Binary

Solutions of Bis(Trimethylammonium)

Ammonium Electrolytic

Solutions of the Electrolytic Phase

Diagram by differential thermal

analysis of Sodium Salts in

Ammonium-Based Deep Eutectic

Effect of Counterions on Micellization

of Pyrrolidinium Based Silicone Ionic

Conductance Studies of NaCl, KCl,

NaBr, NaI, NaBPh₄, Bu₄NI, and NaClO₄

in water: A study of the thermodynamic

properties of (dimethyl sulfoxide +

acetone) mixtures and volumetric

Properties for the NaBr + Maltose +

Water System at 298.15 K:

(2S,3R,4R,5R)-Hexane-1,2,3,4,5,6-hexol

in Water-Liquid Equilibria in Ternary and

Systems: KBr-GaBr₂-H₂O and NaBr-K:

GaBr₂-H₂O and Modeling aqueous

electrolyte/amino-acid solutions with

Effect of NaBr, KCl, KBr, and MgCl₂ on

Viscosities of Aqueous Glycine and

Density of Ethanol at 298.15 K:

Solutions by experiment and molecular

Simulation: A study of the excess molar

volume of ternary mixtures containing

Apparent Molal Properties, Solubilities and

Volumes of Some 1:1 Electrolytes in

Non-aqueous Media: Phase Equilibria in

NaCl-KCl-H₂O and the solubility of alkali

halides in the NaCl-KCl-H₂O system in the

Quaternary System NaCl-KCl-H₂O +

GaBr₂-H₂O at 298.15 K: Aqueous

Solutions with Mixed Salts of NaCl +

KBr and NaBr + KCl:

Solubility of L-carnitine in NaCl and KCl

Constants in Aqueous Solutions of

Rosiglitazone in the NaBr and NaCl

systems: KBr-MgBr₂-H₂O and

NaBr-MgBr₂-H₂O at 323 K: Binary

Aqueous NaBr and KBr and Ternary

Effect of Electrolyte and Temperature

on Micellization Behavior of 577) K and

Pressure of NaBr and NaCl and Tetraaminium

hydroxide, Ethanol, and Their

Mixed Solutions:

Tetrabutylammonium Bromide, Sodium

Tetraphenylborate, and Sodium

perchlorate in Select Water (2)

Measuring the Phase Equilibria of the

Phase Equilibria in the Quaternary

System NaBr-KBr-GaBr₂-H₂O and

Two Quaternary Systems NaBr-KBr-

liquids in aqueous salt solutions at

298.15 K: Conductances of

Tetrabutylammonium Bromide, Sodium

Tetraphenylborate, and Sodium

perchlorate in Select Water (2)

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

<https://www.doi.org/10.1016/j.jct.2013.03.008>

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Conductance Studies of
Tetrabutylammonium Bromide, Sodium
Bromide and Sodium
Iodide in Ethanol
Solutions at 25°C
Surface Tension of Aqueous Solutions:
Investigation of Surface Properties for
Electrolyte Solutions: Measurement
and Prediction of Surface Tension for
Aqueous Concentrated Electrolyte
Solutions:

<https://www.doi.org/10.1021/jc300737t>

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<https://www.doi.org/10.1021/jc100905g>

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<http://webbook.nist.gov/cgi/cbook.cgi?ID=C12431560&Units=SI>

Legend

pvap: Vapor pressure

tt: Triple Point Temperature

Latest version available from:

<https://www.cheméo.com/cid/35-812-1/Sodium-bromide.pdf>

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