

sodium formate

Other names:	sodium methanoate
Inchi:	InChI=1S/CH2O2.Na/c2-1-3;/h1H,(H,2,3);/q;+1/p-1
InchiKey:	HLBBKKJFGFRGMU-UHFFFAOYSA-M
Formula:	CHNaO2
SMILES:	O=C[O-].[Na+]
Mol. weight [g/mol]:	68.01
CAS:	141-53-7

Physical Properties

Property code	Value	Unit	Source
ss	103.76	J/mol×K	NIST Webbook
ss	103.76	J/mol×K	NIST Webbook
tt	530.46 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	87.68	J/mol×K	298.15	NIST Webbook
cps	88.30	J/mol×K	340.00	NIST Webbook
cps	87.68	J/mol×K	298.15	NIST Webbook

Sources

Dilute Aqueous Solutions with Formate Ions: A Conductometric Study: Measurement and Correlation of Densities, Ultrasonic Velocities, and Molal Viscosities for Aqueous Solutions of Short Chain Carboxylic Acids, Sodium Peroxide and Sodium Formate on the Liquid-Liquid Equilibrium of Carbon Dioxide and Systems Containing Disodium Biphosphate and Salts in Aqueous Solution: Vaporization and Heat of Vaporization of H_2CO_3 and $\text{KHCO}_3 \cdot \text{H}_2\text{O}$ from 2 to 300 K and from 0 to 300 K: A Thermodynamic Model for the System: H_2CO_3 and $\text{KHCO}_3 \cdot \text{H}_2\text{O}$ and Organic Salts: <https://www.doi.org/10.1021/je900903w>
<https://www.doi.org/10.1021/je0496600>
<https://www.doi.org/10.1021/je200964m>
<https://www.doi.org/10.1021/acs.jced.9b00081>
<https://www.doi.org/10.1021/je400605x>
<https://www.doi.org/10.1021/je900487a>
<https://www.doi.org/10.1021/je500419b>
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C141537&Units=SI>

Vapor pressures, densities, and viscosities of the (Water + Lithium + Bromide + Sodium Formate) system and (Water + Lithium Bromide + Potassium Formate) system:

<https://www.doi.org/10.1021/je010312x>

Legend

cps: Solid phase heat capacity
ss: Solid phase molar entropy at standard conditions
tt: Triple Point Temperature

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