

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

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C141537&Units=SI
Molar Volumes and Heat Capacities of Aqueous Solutions of Short-Chain Aliphatic Acids and Salts at 25°C	https://www.doi.org/10.1021/jc200964m
Thermodynamic Properties of Aqueous Sodium Formate System: A Conductometric Study	https://www.doi.org/10.1021/jc900903w
Vapor pressures, densities, and viscosities of the (Water + Lithium + Sodium) Formate System	https://www.doi.org/10.1021/jc010312x
Measurement and Correlation of Density, Ultrasonic Velocities, and Compressibility of Aqueous Sodium Formate System	https://www.doi.org/10.1021/jc0496600
Thermodynamic Properties of Aqueous Sodium Formate System	https://www.doi.org/10.1021/jc900487a
Thermodynamic Properties of Aqueous Sodium Formate System	https://www.doi.org/10.1021/jc500419b
Thermodynamic Properties of Aqueous Sodium Formate System	https://www.doi.org/10.1021/jc400605x

Salting Effect of Sodium Hydroxide and Sodium Formate on the Liquid-Liquid Equilibrium of Polyoxymethylene Dimethyl Ethers in Aqueous Solution: <https://www.doi.org/10.1021/acs.jced.9b00081>

Legend

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

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