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 Sodium Carboxylates at 25 °C:	https://www.doi.org/10.1021/je200964m
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
Dilute Aqueous Solutions with Formate Ions: A Conductometric Study:	https://www.doi.org/10.1021/je900903w
Vapor prssures, desities, and viscosities of the (Water + Lithium + Bromide + Sodium Formate) system:	https://www.doi.org/10.1021/je010312x
Phase Behavior of Aqueous Biphasic Systems Composed of Ionic Liquids and (Water + Lithium Bromide + Potassium Formate) system:	https://www.doi.org/10.1021/je500419b
Measurement and Correlation of Densities, Ultrasonic Velocities, and Compressibilities for Binary Aqueous Poly(ethylene glycol), Disodium Succinate, or Sodium Formate and Ternary Aqueous Poly(ethylene glycol) Systems Containing Disodium Succinate or Sodium Formate at T = (298.15, 308.15, and 318.15) K:	https://www.doi.org/10.1021/je0496600
Vapor Pressure Measurements of NaHCO3(s) + H2O and KHCO3(s) + H2O from 278 to 308 K and Representation with an Ion Interaction (Pitzer) Model:	https://www.doi.org/10.1021/je900487a

Heat Capacities of Four Promising Alternatives to Lithium Bromide Aqueous Solution in Absorption Refrigerators:

https://www.doi.org/10.1021/je400605x

Legend

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

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