# Acetic acid, sodium salt

Other names: anhydrous sodium acetate

sodium acetate

sodium ethanoate

InChI=1S/C2H4O2.Na/c1-2(3)4;/h1H3,(H,3,4);/q;+1/p-1 Inchi:

InchiKey: VMHLLURERBWHNL-UHFFFAOYSA-M

Formula: C2H3NaO2 SMILES: CC(=O)O[Na]

82.03 Mol. weight [g/mol]: CAS: 127-09-3

## **Physical Properties**

Property code	Value	Unit	Source
hfus	17.40	kJ/mol	Enthalpies of formation and lattice enthalpies of alkaline metal acetates
SS	138.10	J/mol×K	NIST Webbook
SS	123.09	J/mol×K	NIST Webbook
tf	601.30 ± 0.20	K	NIST Webbook

## **Temperature Dependent Properties**

Property code	Value	Unit	Temperature [K]	Source
cps	100.83	J/mol×K	298.15	NIST Webbook
cps	111.70	J/mol×K	340.00	NIST Webbook
cps	88.07	J/mol×K	291.18	NIST Webbook

#### Sources

perchlorates:

Molar Volumes and Heat Capacities of Aqueous Solutions of Short-Chain Anghalities of immerably masset ignic liggings in aqueous salt solutions at massing ment and Calculation of Solubilities in the Ternary System Nac Masson pressures to https://www.doi.org/10.1016/j.jct.2006.12.006 aggeous solutions of sodium and potassium acetates, chlorates, and

https://www.doi.org/10.1021/je200964m

Influence of Different Inorganic Salts Probleman of Plectrolytes on liquid-liquid equilibria ne water following the problem of an acceptable of a a isopropanol-water-sodium oleate at https://www.doi.org/10.1007/s10765-011-1111-y https://www.doi.org/10.1007/s10765-011-1111-y https://www.doi.org/10.1021/je400625f https://www.doi.org/10.1021/je400625f https://www.doi.org/10.1016/j.fluid.2011.05.017 of some alkali metal acetates in https://www.doi.org/10.1021/acs.jced.5b00200 Agementory Posassions/Bogium Acetate Volumerts stender Experimental and and amanagement Acetate Aprima System Naci ofilation districts and Acquain Based filation in the second of the seco liquid-liquid equilibrium: Measuring South Studenty Sware provides that expending sware provides the expension of the students of t Coefficients for Two- and Three-Basic

https://www.doi.org/10.1021/je5008857 on the Ionicity and Thermophysical โทษัพษาสุดราชย์ electrolytes on liquid-liquid https://www.doi.org/10.1016/j.fluid.2016.05.001 https://www.doi.org/10.1021/acs.jced.8b00188 https://www.doi.org/10.1016/j.tca.2016.03.030 https://www.doi.org/10.1021/je100190e https://www.doi.org/10.1016/j.tca.2008.12.029 https://www.doi.org/10.1021/acs.jced.8b00590 https://www.doi.org/10.1016/j.fluid.2006.03.021 http://webbook.nist.gov/cgi/cbook.cgi?ID=C127093&Units=SI

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https://www.doi.org/10.1021/je300701m

https://www.doi.org/10.1021/je500419b

#### Legend

and Organic Salts:

Solid phase heat capacity cps:

Systems Composed of Ionic Liquids

Enthalpy of fusion at standard conditions hfus:

Solid phase molar entropy at standard conditions SS:

tf: Normal melting (fusion) point

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