

Sodium methoxide

Other names:

methanol, sodium salt
methoxysodium
sodium methanolate
sodium methylate

Inchi:

InChI=1S/CH3O.Na/c1-2;/h1H3;/q-1;+1

InchiKey:

WQDUMFSSJAZKTM-UHFFFAOYSA-N

Formula:

CH3NaO

SMILES:

C[O-].[Na+]

Mol. weight [g/mol]:

54.02

Physical Properties

Property code	Value	Unit	Source
hfs	-375.90 ± 3.10	kJ/mol	NIST Webbook
hfs	-372.80 ± 2.40	kJ/mol	NIST Webbook
hfs	-374.40 ± 2.00	kJ/mol	NIST Webbook
ss	110.58	J/mol×K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	59.26	J/mol×K	250.00	Heat capacity measurements on sodium alkoxides
cps	65.05	J/mol×K	298.15	Heat capacity measurements on sodium alkoxides
cps	65.37	J/mol×K	300.00	Heat capacity measurements on sodium alkoxides
cps	71.20	J/mol×K	350.00	Heat capacity measurements on sodium alkoxides

cps	76.37	J/mol×K	400.00	Heat capacity measurements on sodium alkoxides
cps	81.66	J/mol×K	450.00	Heat capacity measurements on sodium alkoxides
cps	87.57	J/mol×K	500.00	Heat capacity measurements on sodium alkoxides
cps	91.56	J/mol×K	550.00	Heat capacity measurements on sodium alkoxides
cps	69.45	J/mol×K	298.15	NIST Webbook

Sources

Standard molar enthalpies of formation of sodium alkoxides: <https://www.doi.org/10.1016/j.jct.2006.07.024>
Heat capacity measurements on sodium alkoxides: <https://www.doi.org/10.1016/j.tca.2005.06.044>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C124414&Units=SI>

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Legend

cps: Solid phase heat capacity
hfs: Solid phase enthalpy of formation at standard conditions
ss: Solid phase molar entropy at standard conditions

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