

# sodium methanolate

<b>Other names:</b>	methanol, sodium salt methoxysodium sodium methoxide sodium methylate
<b>Inchi:</b>	InChI=1S/CH3O.Na/c1-2;/h1H3;/q-1;+1
<b>InchiKey:</b>	WQDUMFSSJAZKTM-UHFFFAOYSA-N
<b>Formula:</b>	CH3NaO
<b>SMILES:</b>	C[O-].[Na+]
<b>Mol. weight [g/mol]:</b>	54.02
<b>CAS:</b>	124-41-4

## 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

Heat capacity measurements on sodium alkoxides:  
NIST Webbook:

<https://www.doi.org/10.1016/j.tca.2005.06.044>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C124414&Units=SI>

## 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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