2-Propanamine, 1-methoxy-

Other names: (.+/-.)-2-Amino-1-methoxypropane
1-Methoxy-2-propanamine
Ethylamine, 2-methoxy-1-methyl-
1-Methoxy-2-propylamine
2-amino-1-methoxypropane
Inchi: InChI=1S/C4H11NO/c1-4(5)3-6-2/h4H,3,5H2,1-2H3
InchiKey: NXMXETCTWNXSFG-UHFFFAOYSA-N
Formula: C4H11NO
SMILES: COCC(C)N
Mol. weight [g/mol]: 89.14
CAS: 37143-54-7

Physical Properties

Property code	Value	Unit	Source
gf	-58.19	kJ/mol	Joback Method
hf	-229.60	kJ/mol	Joback Method
hfus	8.98	kJ/mol	Joback Method
hvap	37.16	kJ/mol	Joback Method
log10ws	-0.13		Crippen Method
logp	-0.020		Crippen Method
mcvol	83.070	ml/mol	McGowan Method
pc	4140.93	kPa	Joback Method
tb	385.43	K	Joback Method
tc	571.86	K	Joback Method
tf	225.33	K	Joback Method
vc	0.300	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	159.60	J/mol×K	385.43	Joback Method
cpg	168.33	J/mol×K	416.50	Joback Method
cpg	176.79	J/mol×K	447.57	Joback Method
cpg	184.97	J/mol×K	478.64	Joback Method

cpg	192.89	J/mol×K	509.71	Joback Method
cpg	200.53	J/mol×K	540.79	Joback Method
cpg	207.90	J/mol×K	571.86	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	366.20	K	99.10	NIST Webbook

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C37143547&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg: Ideal gas heat capacity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
tb: Normal Boiling Point Temperature
tbrp: Boiling point at reduced pressure
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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