Ethanamine, 2-methoxy-N-(2-methoxyethyl)-N-methyl-

Other names: 2-Methoxy-N-(2-methoxyethyl)-N-methylethanamine
Inchi: InChI=1S/C7H17NO2/c1-8(4-6-9-2)5-7-10-3/h4-7H2,1-3H3
InchiKey: WOMNOVKEEOBOTB-UHFFFAOYSA-N
Formula: C7H17NO2
SMILES: COCCN(C)CCOC
Mol. weight [g/mol]: 147.22
CAS: 92260-33-8

Physical Properties

Property code	Value	Unit	Source
gf	-91.16	kJ/mol	Joback Method
hf	-384.72	kJ/mol	Joback Method
hfus	19.28	kJ/mol	Joback Method
hvap	38.04	kJ/mol	Joback Method
log10ws	0.50		Crippen Method
logp	0.211		Crippen Method
mcvol	131.210	ml/mol	McGowan Method
pc	2695.80	kPa	Joback Method
rinpol	1040.00		NIST Webbook
tb	416.84	K	Joback Method
tc	580.44	K	Joback Method
tf	245.58	K	Joback Method
vc	0.481	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.57	J/mol×K	416.84	Joback Method
cpg	283.93	J/mol×K	444.11	Joback Method
cpg	295.91	J/mol×K	471.37	Joback Method
cpg	307.53	J/mol×K	498.64	Joback Method
cpg	318.78	J/mol×K	525.91	Joback Method
cpg	329.66	J/mol×K	553.17	Joback Method
cpg	340.18	J/mol×K	580.44	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C92260338&Units=SI

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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