Ethylamine, 2-(2-methoxy-1-methylethoxy)-1-methyl-

Inchi: InChI=1S/C7H17NO2/c1-6(8)4-10-7(2)5-9-3/h6-7H,4-5,8H2,1-3H3
InchiKey: QADXVXGIHZYVQI-UHFFFAOYSA-N
Formula: C7H17NO2
SMILES: COCC(C)OCC(C)N
Mol. weight [g/mol]: 147.22
CAS: 89979-85-1

Physical Properties

Property code	Value	Unit	Source
gf	-140.37	kJ/mol	Joback Method
hf	-429.02	kJ/mol	Joback Method
hfus	14.41	kJ/mol	Joback Method
hvap	45.86	kJ/mol	Joback Method
log10ws	-0.58		Crippen Method
logp	0.385		Crippen Method
mcvol	131.210	ml/mol	McGowan Method
pc	2918.68	kPa	Joback Method
tb	476.05	K	Joback Method
tc	661.50	K	Joback Method
tf	266.37	K	Joback Method
vc	0.480	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	299.13	J/mol×K	476.05	Joback Method
cpg	311.94	J/mol×K	506.96	Joback Method
cpg	324.32	J/mol×K	537.87	Joback Method
cpg	336.27	J/mol×K	568.78	Joback Method
cpg	347.77	J/mol×K	599.69	Joback Method
cpg	358.82	J/mol×K	630.59	Joback Method
cpg	369.42	J/mol×K	661.50	Joback Method

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=C89979851&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:
https://www.chemeo.com/cid/27-669-0/Ethylamine-2-2-methoxy-1-methylethoxy-1-methyl.pdf
Generated by Cheméo on 2024-04-29 04:35:03.571318194 +0000 UTC m=+16654552.491895510.
Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.