

2-Ethoxyethylamine

Other names:	2-Aminodiethyl ether Ethanamine, 2-ethoxy-
Inchi:	InChI=1S/C4H11NO/c1-2-6-4-3-5/h2-5H2,1H3
InchiKey:	BPGIOCZAQDIBPI-UHFFFAOYSA-N
Formula:	C4H11NO
SMILES:	CCOCCN
Mol. weight [g/mol]:	89.14
CAS:	110-76-9

Physical Properties

Property code	Value	Unit	Source
gf	-55.75	kJ/mol	Joback Method
hf	-224.32	kJ/mol	Joback Method
hfus	12.50	kJ/mol	Joback Method
hvap	37.55	kJ/mol	Joback Method
log10ws	-0.02		Crippen Method
logp	-0.018		Crippen Method
mvol	83.070	ml/mol	McGowan Method
pc	4098.62	kPa	Joback Method
tb	385.87	K	Joback Method
tc	567.91	K	Joback Method
tf	240.33	K	Joback Method
vc	0.306	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	159.63	J/molxK	385.87	Joback Method
cpg	168.06	J/molxK	416.21	Joback Method
cpg	176.23	J/molxK	446.55	Joback Method
cpg	184.16	J/molxK	476.89	Joback Method
cpg	191.83	J/molxK	507.23	Joback Method
cpg	199.25	J/molxK	537.57	Joback Method
cpg	206.42	J/molxK	567.91	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=C110769&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

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