Diethylamine, 2-ethoxy-

Inchi: InChI=1S/C6H15NO/c1-3-7-5-6-8-4-2/h7H,3-6H2,1-2H3
InchiKey: HDWAEDOMCNQUSW-UHFFFAOYSA-N
Formula: C6H15NO
SMILES: CCNCCOCC
Mol. weight [g/mol]: 117.19
CAS: 38256-95-0

Physical Properties

Property code	Value	Unit	Source
gf	-15.97	kJ/mol	Joback Method
hf	-245.92	kJ/mol	Joback Method
hfus	17.58	kJ/mol	Joback Method
hvap	37.80	kJ/mol	Joback Method
log10ws	-0.61		Crippen Method
logp	0.632		Crippen Method
mcvol	111.250	ml/mol	McGowan Method
pc	3093.29	kPa	Joback Method
tb	409.27	K	Joback Method
tc	579.44	K	Joback Method
tf	232.27	K	Joback Method
vc	0.424	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	222.76	J/mol×K	409.27	Joback Method
cpg	233.87	J/mol×K	437.63	Joback Method
cpg	244.64	J/mol×K	465.99	Joback Method
cpg	255.05	J/mol×K	494.36	Joback Method
cpg	265.12	J/mol×K	522.72	Joback Method
cpg	274.83	J/mol×K	551.08	Joback Method
cpg	284.21	J/mol×K	579.44	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=C38256950&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