Propylamine, n,n-diethyl-2,3-epoxy-

Inchi: InChI=1S/C7H15NO/c1-3-8(4-2)5-7-6-9-7/h7H,3-6H2,1-2H3
InchiKey: SBIDUCNDVPSWQT-UHFFFAOYSA-N
Formula: C7H15NO
SMILES: CCN(CC)CC1CO1
Mol. weight [g/mol]: 129.20
CAS: 2917-91-1

Physical Properties

Property code	Value	Unit	Source
gf	93.47	kJ/mol	Joback Method
hf	-179.48	kJ/mol	Joback Method
hfus	23.02	kJ/mol	Joback Method
hvap	37.64	kJ/mol	Joback Method
log10ws	-0.42		Crippen Method
logp	0.727		Crippen Method
mcvol	114.480	ml/mol	McGowan Method
pc	3188.33	kPa	Joback Method
tb	405.69	K	Joback Method
tc	583.55	K	Joback Method
tf	245.63	K	Joback Method
vc	0.423	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	236.64	J/mol×K	405.69	Joback Method
cpg	250.82	J/mol×K	435.33	Joback Method
cpg	264.27	J/mol×K	464.98	Joback Method
cpg	277.03	J/mol×K	494.62	Joback Method
cpg	289.12	J/mol×K	524.26	Joback Method
cpg	300.57	J/mol×K	553.90	Joback Method
cpg	311.42	J/mol×K	583.55	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=C2917911&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume