Ethyl tetradecyl amine

Inchi: InChI=1S/C16H35N/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-4-2/h17H,3-16H2,1-2H3
InchiKey: DFIGJQXADDYWIO-UHFFFAOYSA-N
Formula: C16H35N
SMILES: CCCCCCCCCCCCCCNCC
Mol. weight [g/mol]: 241.46

Physical Properties

Property code	Value	Unit	Source
gf	173.23	kJ/mol	Joback Method
hf	-320.10	kJ/mol	Joback Method
hfus	42.29	kJ/mol	Joback Method
hvap	57.65	kJ/mol	Joback Method
log10ws	-5.71		Crippen Method
logp	5.297		Crippen Method
mcvol	246.280	ml/mol	McGowan Method
pc	1331.01	kPa	Joback Method
rinpol	1752.00		NIST Webbook
tb	615.65	K	Joback Method
tc	778.18	K	Joback Method
tf	322.74	K	Joback Method
vc	0.967	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	677.16	J/mol×K	615.65	Joback Method
cpg	696.09	J/mol×K	642.74	Joback Method
cpg	714.25	J/mol×K	669.83	Joback Method
cpg	731.65	J/mol×K	696.91	Joback Method
cpg	748.31	J/mol×K	724.00	Joback Method
cpg	764.27	J/mol×K	751.09	Joback Method
cpg	779.55	J/mol×K	778.18	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=R543112&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