Ethyl dodecyl amine

Inchi: InChI=1S/C14H31N/c1-3-5-6-7-8-9-10-11-12-13-14-15-4-2/h15H,3-14H2,1-2H3
InchiKey: LWIPGCTWFZCIKX-UHFFFAOYSA-N
Formula: C14H31N
SMILES: CCCCCCCCCCCCNCC
Mol. weight [g/mol]: 213.40

Physical Properties

Property code	Value	Unit	Source
gf	156.39	kJ/mol	Joback Method
hf	-278.82	kJ/mol	Joback Method
hfus	37.12	kJ/mol	Joback Method
hvap	53.19	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.517		Crippen Method
mcvol	218.100	ml/mol	McGowan Method
pc	1539.08	kPa	Joback Method
rinpol	1555.00		NIST Webbook
rinpol	1555.00		NIST Webbook
tb	569.89	K	Joback Method
tc	732.88	K	Joback Method
tf	300.20	K	Joback Method
vc	0.855	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	567.82	J/mol×K	569.89	Joback Method
cpg	585.80	J/mol×K	597.06	Joback Method
cpg	603.06	J/mol×K	624.22	Joback Method
cpg	619.61	J/mol×K	651.39	Joback Method
cpg	635.48	J/mol×K	678.55	Joback Method
cpg	650.69	J/mol×K	705.72	Joback Method
cpg	665.26	J/mol×K	732.88	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=R543078&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