Dodecylamine, N-allyl-

Inchi: InChI=1S/C15H31N/c1-3-5-6-7-8-9-10-11-12-13-15-16-14-4-2/h4,16H,2-3,5-15H2,1H3
InchiKey: UPJCLNVDRFIPLQ-UHFFFAOYSA-N
Formula: C15H31N
SMILES: C=CCNCCCCCCCCCCCC
Mol. weight [g/mol]: 225.41

Physical Properties

Property code	Value	Unit	Source
gf	252.65	kJ/mol	Joback Method
hf	-174.03	kJ/mol	Joback Method
hfus	38.43	kJ/mol	Joback Method
hvap	54.75	kJ/mol	Joback Method
log10ws	-5.14		Crippen Method
logp	4.683		Crippen Method
mcvol	227.890	ml/mol	McGowan Method
pc	1475.88	kPa	Joback Method
rinpol	2055.00		NIST Webbook
rinpol	2055.00		NIST Webbook
tb	589.45	K	Joback Method
tc	754.25	K	Joback Method
tf	309.71	K	Joback Method
vc	0.891	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	600.28	J/mol×K	589.45	Joback Method
cpg	618.30	J/mol×K	616.92	Joback Method
cpg	635.57	J/mol×K	644.38	Joback Method
cpg	652.10	J/mol×K	671.85	Joback Method
cpg	667.92	J/mol×K	699.32	Joback Method
cpg	683.06	J/mol×K	726.79	Joback Method
cpg	697.54	J/mol×K	754.25	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=U416166&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