Hexadecylamine, N,N-di(allyl)-

Inchi: InChI=1S/C22H43N/c1-4-7-8-9-10-11-12-13-14-15-16-17-18-19-22-23(20-5-2)21-6-3/h5-
InchiKey: FDVMDNBDNHHXAO-UHFFFAOYSA-N
Formula: C22H43N
SMILES: C=CCN(CC=C)CCCCCCCCCCCCCCCC
Mol. weight [g/mol]: 321.58

Physical Properties

Property code	Value	Unit	Source
gf	420.82	kJ/mol	Joback Method
hf	-179.02	kJ/mol	Joback Method
hfus	53.20	kJ/mol	Joback Method
hvap	65.27	kJ/mol	Joback Method
log10ws	-7.31		Crippen Method
logp	7.142		Crippen Method
mcvol	322.220	ml/mol	McGowan Method
pc	947.91	kPa	Joback Method
rinpol	1249.00		NIST Webbook
tb	708.56	K	Joback Method
tc	874.64	K	Joback Method
tf	366.65	K	Joback Method
vc	1.248	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	955.66	J/mol×K	708.56	Joback Method
cpg	976.68	J/mol×K	736.24	Joback Method
cpg	996.76	J/mol×K	763.92	Joback Method
cpg	1015.93	J/mol×K	791.60	Joback Method
cpg	1034.23	J/mol×K	819.28	Joback Method
cpg	1051.71	J/mol×K	846.96	Joback Method
cpg	1068.41	J/mol×K	874.64	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=U416179&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