Octadecylamine, N,N-di(allyl)-

Inchi: InChI=1S/C24H47N/c1-4-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-24-25(22-5-2)23-6
InchiKey: XWMUKEAFHWGSAU-UHFFFAOYSA-N
Formula: C24H47N
SMILES: C=CCN(CC=C)CCCCCCCCCCCCCCCCCC
Mol. weight [g/mol]: 349.64

Physical Properties

Property code	Value	Unit	Source
gf	437.66	kJ/mol	Joback Method
hf	-220.30	kJ/mol	Joback Method
hfus	58.38	kJ/mol	Joback Method
hvap	69.72	kJ/mol	Joback Method
log10ws	-8.15		Crippen Method
logp	7.922		Crippen Method
mcvol	350.400	ml/mol	McGowan Method
pc	845.05	kPa	Joback Method
rinpol	1789.00		NIST Webbook
tb	754.32	K	Joback Method
tc	925.69	K	Joback Method
tf	389.19	K	Joback Method
vc	1.359	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1079.71	J/mol×K	754.32	Joback Method
cpg	1101.65	J/mol×K	782.88	Joback Method
cpg	1122.57	J/mol×K	811.44	Joback Method
cpg	1142.51	J/mol×K	840.01	Joback Method
cpg	1161.54	J/mol×K	868.57	Joback Method
cpg	1179.68	J/mol×K	897.13	Joback Method
cpg	1197.00	J/mol×K	925.69	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415523&Units=SI
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

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