Tetradecylamine, N,N-di(allyl)-

Inchi: InChI=1S/C20H39N/c1-4-7-8-9-10-11-12-13-14-15-16-17-20-21(18-5-2)19-6-3/h5-6H,2-4
InchiKey: HNRPWNCIFZSWPG-UHFFFAOYSA-N
Formula: C20H39N
SMILES: C=CCN(CC=C)CCCCCCCCCCCCCC
Mol. weight [g/mol]: 293.53

Physical Properties

Property code	Value	Unit	Source
gf	403.98	kJ/mol	Joback Method
hf	-137.74	kJ/mol	Joback Method
hfus	48.02	kJ/mol	Joback Method
hvap	60.82	kJ/mol	Joback Method
log10ws	-6.47		Crippen Method
logp	6.361		Crippen Method
mcvol	294.040	ml/mol	McGowan Method
pc	1070.76	kPa	Joback Method
rinpol	2600.00		NIST Webbook
tb	662.80	K	Joback Method
tc	825.92	K	Joback Method
tf	344.11	K	Joback Method
vc	1.135	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	835.46	J/mol×K	662.80	Joback Method
cpg	855.70	J/mol×K	689.99	Joback Method
cpg	875.04	J/mol×K	717.17	Joback Method
cpg	893.52	J/mol×K	744.36	Joback Method
cpg	911.19	J/mol×K	771.54	Joback Method
cpg	928.07	J/mol×K	798.73	Joback Method
cpg	944.20	J/mol×K	825.92	Joback Method

Sources

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=U416178&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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