Undecylamine, N,N-di(allyl)-

Inchi: InChI=1S/C17H33N/c1-4-7-8-9-10-11-12-13-14-17-18(15-5-2)16-6-3/h5-6H,2-4,7-17H2,1
InchiKey: DWCJKORELWLSIP-UHFFFAOYSA-N
Formula: C17H33N
SMILES: C=CCN(CC=C)CCCCCCCCCCC
Mol. weight [g/mol]: 251.45

Physical Properties

Property code	Value	Unit	Source
gf	378.72	kJ/mol	Joback Method
hf	-75.82	kJ/mol	Joback Method
hfus	40.25	kJ/mol	Joback Method
hvap	54.14	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	5.191		Crippen Method
mcvol	251.770	ml/mol	McGowan Method
pc	1305.17	kPa	Joback Method
rinpol	1947.00		NIST Webbook
tb	594.16	K	Joback Method
tc	756.19	K	Joback Method
tf	310.30	K	Joback Method
vc	0.968	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	663.68	J/mol×K	594.16	Joback Method
cpg	682.77	J/mol×K	621.17	Joback Method
cpg	701.03	J/mol×K	648.17	Joback Method
cpg	718.50	J/mol×K	675.18	Joback Method
cpg	735.19	J/mol×K	702.18	Joback Method
cpg	751.15	J/mol×K	729.19	Joback Method
cpg	766.41	J/mol×K	756.19	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U416176&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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