Decylamine, N,N-di(allyl)-

Inchi: InChI=1S/C16H31N/c1-4-7-8-9-10-11-12-13-16-17(14-5-2)15-6-3/h5-6H,2-4,7-16H2,1H3
InchiKey: CHKCACWHFDACTH-UHFFFAOYSA-N
Formula: C16H31N
SMILES: C=CCN(CC=C)CCCCCCCCCC
Mol. weight [g/mol]: 237.42

Physical Properties

Property code	Value	Unit	Source
gf	370.30	kJ/mol	Joback Method
hf	-55.18	kJ/mol	Joback Method
hfus	37.66	kJ/mol	Joback Method
hvap	51.91	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	4.801		Crippen Method
mcvol	237.680	ml/mol	McGowan Method
pc	1400.64	kPa	Joback Method
rinpol	1778.00		NIST Webbook
tb	571.28	K	Joback Method
tc	733.63	K	Joback Method
tf	299.03	K	Joback Method
vc	0.911	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	609.01	J/mol×K	571.28	Joback Method
cpg	627.69	J/mol×K	598.34	Joback Method
cpg	645.55	J/mol×K	625.40	Joback Method
cpg	662.64	J/mol×K	652.45	Joback Method
cpg	678.97	J/mol×K	679.51	Joback Method
cpg	694.58	J/mol×K	706.57	Joback Method
cpg	709.50	J/mol×K	733.63	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U416175&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