

Decylamine, N-allyl-

Inchi:	InChI=1S/C13H27N/c1-3-5-6-7-8-9-10-11-13-14-12-4-2/h4,14H,2-3,5-13H2,1H3
InchiKey:	USGYNNGHZHARJS-UHFFFAOYSA-N
Formula:	C13H27N
SMILES:	C=CCNCCCCCCCCC
Mol. weight [g/mol]:	197.36

Physical Properties

Property code	Value	Unit	Source
gf	235.81	kJ/mol	Joback Method
hf	-132.75	kJ/mol	Joback Method
hfus	33.24	kJ/mol	Joback Method
hvap	50.30	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	3.903		Crippen Method
mcvol	199.710	ml/mol	McGowan Method
pc	1720.31	kPa	Joback Method
rinpol	1737.00		NIST Webbook
rinpol	1737.00		NIST Webbook
tb	543.69	K	Joback Method
tc	709.90	K	Joback Method
tf	287.17	K	Joback Method
vc	0.779	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	495.36	J/mol×K	543.69	Joback Method
cpg	512.34	J/mol×K	571.39	Joback Method
cpg	528.62	J/mol×K	599.09	Joback Method
cpg	544.21	J/mol×K	626.80	Joback Method
cpg	559.14	J/mol×K	654.50	Joback Method
cpg	573.42	J/mol×K	682.20	Joback Method
cpg	587.09	J/mol×K	709.90	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U416165&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.cheméo.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
h vap:	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
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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