

# Decylamine, N-allyl-

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

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U416165&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416165&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvpap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinppl:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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