

Nonylamine, N-allyl-

Inchi:	InChI=1S/C12H25N/c1-3-5-6-7-8-9-10-12-13-11-4-2/h4,13H,2-3,5-12H2,1H3
InchiKey:	WVVHVLHWSOWNND-UHFFFAOYSA-N
Formula:	C12H25N
SMILES:	C=CCNCCCCCCCCC
Mol. weight [g/mol]:	183.33

Physical Properties

Property code	Value	Unit	Source
gf	227.39	kJ/mol	Joback Method
hf	-112.11	kJ/mol	Joback Method
hfus	30.66	kJ/mol	Joback Method
hvap	48.07	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.513		Crippen Method
mcvol	185.620	ml/mol	McGowan Method
pc	1865.94	kPa	Joback Method
tb	520.81	K	Joback Method
tc	688.01	K	Joback Method
tf	275.90	K	Joback Method
vc	0.724	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.29	J/molxK	520.81	Joback Method
cpg	461.67	J/molxK	548.68	Joback Method
cpg	477.36	J/molxK	576.54	Joback Method
cpg	492.40	J/molxK	604.41	Joback Method
cpg	506.80	J/molxK	632.28	Joback Method
cpg	520.58	J/molxK	660.15	Joback Method
cpg	533.76	J/molxK	688.01	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U416164&Units=SI

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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