1-Methyldecylamine

Other names:	2-Undecylamine
	2-Undecanamine
	2-Aminoundecane
Inchi:	InChI=1S/C11H25N/c1-3-4-5-6-7-8-9-10-11(2)12/h11H,3-10,12H2,1-2H3
InchiKey:	NHBKWZCTSMCKDS-UHFFFAOYSA-N
Formula:	C11H25N
SMILES:	CCCCCCCCCC(C)N
Mol. weight [g/mol]:	171.32
CAS:	13205-56-6

Physical Properties

Property code	Value	Unit	Source
gf	105.75	kJ/mol	Joback Method
hf	-241.86	kJ/mol	Joback Method
hfus	25.92	kJ/mol	Joback Method
hvap	50.33	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.474		Crippen Method
mcvol	175.830	ml/mol	McGowan Method
pc	2049.31	kPa	Joback Method
tb	523.17	K	Joback Method
tc	699.47	K	Joback Method
tf	281.99	K	Joback Method
vc	0.674	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	430.51	J/mol×K	523.17	Joback Method
cpg	447.00	J/mol×K	552.55	Joback Method
cpg	462.80	J/mol×K	581.94	Joback Method
cpg	477.92	J/mol×K	611.32	Joback Method
cpg	492.37	J/mol×K	640.70	Joback Method
cpg	506.19	J/mol×K	670.09	Joback Method

cpg	519.38	J/mol×K	699.47	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=C13205566&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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume