N-Methylallylamine

Other names:	N-Allylmethylamine
	2-Propen-1-amine, N-methyl-
	CH2=CHCH2NHCH3
Inchi:	InChI=1S/C4H9N/c1-3-4-5-2/h3,5H,1,4H2,2H3
InchiKey:	IOXXVNYDGIXMIP-UHFFFAOYSA-N
Formula:	C4H9N
SMILES:	C=CCNC
Mol. weight [g/mol]:	71.12
CAS:	627-37-2

Physical Properties

Property code	Value	Unit	Source
gf	160.03	kJ/mol	Joback Method
hf	53.01	kJ/mol	Joback Method
hfus	9.93	kJ/mol	Joback Method
hvap	30.26	kJ/mol	Joback Method
log10ws	-0.54		Crippen Method
logp	0.392		Crippen Method
mcvol	72.900	ml/mol	McGowan Method
pc	4178.49	kPa	Joback Method
tb	338.20	K	NIST Webbook
tc	511.66	K	Joback Method
tf	185.74	K	Joback Method
vc	0.276	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	115.89	J/mol×K	337.77	Joback Method
cpg	123.92	J/mol×K	366.75	Joback Method
cpg	131.62	J/mol×K	395.73	Joback Method
cpg	139.00	J/mol×K	424.71	Joback Method
cpg	146.08	J/mol×K	453.70	Joback Method
cpg	152.86	J/mol×K	482.68	Joback Method

cpg	159.35	J/mol×K	511.66	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=C627372&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