2-Propyn-1-amine, N-methyl-

Other names:	N-Methylpropargylamine
	3-Methylamino-1-butyne
	N-(2-Propynyl)-N-methylamine
	N-methylpropyn-2-ylamine
Inchi:	InChI=1S/C4H7N/c1-3-4-5-2/h1,5H,4H2,2H3
InchiKey:	HQFYIDOMCULPIW-UHFFFAOYSA-N
Formula:	C4H7N
SMILES:	C#CCNC
Mol. weight [g/mol]:	69.11
CAS:	35161-71-8

Physical Properties

Property code	Value	Unit	Source
gf	295.26	kJ/mol	Joback Method
hf	219.48	kJ/mol	Joback Method
hfus	14.19	kJ/mol	Joback Method
hvap	30.79	kJ/mol	Joback Method
log10ws	-0.48		Crippen Method
logp	-0.161		Crippen Method
mcvol	68.600	ml/mol	McGowan Method
pc	4815.84	kPa	Joback Method
tb	356.20	K	NIST Webbook
tc	514.04	K	Joback Method
tf	234.47	K	Joback Method
vc	0.257	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	109.31	J/mol×K	331.21	Joback Method
cpg	116.15	J/mol×K	361.68	Joback Method
cpg	122.68	J/mol×K	392.15	Joback Method
cpg	128.91	J/mol×K	422.62	Joback Method
cpg	134.85	J/mol×K	453.09	Joback Method

cpg	140.52	J/mol×K	483.57	Joback Method
cpg	145.91	J/mol×K	514.04	Joback Method

Sources

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=C35161718&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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