CH2N(CH3)2

Inchi: InChI=1S/C3H8N/c1-4(2)3/h1H2,2-3H3
InchiKey: VMWJCFLUSKZZDX-UHFFFAOYSA-N
Formula: C3H8N
SMILES: [CH2]N(C)C
Mol. weight [g/mol]: 58.10
CAS: 30208-47-0

Physical Properties

Property code	Value	Unit	Source
ea	-0.12 ± 0.07	eV	NIST Webbook
gf	137.54	kJ/mol	Joback Method
hf	18.09	kJ/mol	Joback Method
hfpi	661.00	kJ/mol	NIST Webbook
hfus	8.23	kJ/mol	Joback Method
hvap	24.17	kJ/mol	Joback Method
ie	5.70	eV	NIST Webbook
ie	5.35	eV	NIST Webbook
ie	5.70	eV	NIST Webbook
log10ws	0.25		Crippen Method
logp	0.340		Crippen Method
mcvol	60.960	ml/mol	McGowan Method
pc	4665.71	kPa	Joback Method
tb	279.78	K	Joback Method
tc	436.02	K	Joback Method
tf	172.41	K	Joback Method
vc	0.212	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	81.16	J/mol×K	279.78	Joback Method
cpg	88.73	J/mol×K	305.82	Joback Method
cpg	95.89	J/mol×K	331.86	Joback Method
cpg	102.65	J/mol×K	357.90	Joback Method

cpg	109.04	J/mol×K	383.94	Joback Method
cpg	115.08	J/mol×K	409.98	Joback Method
cpg	120.77	J/mol×K	436.02	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C30208470&Units=SI
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

Legend

cpg:	Ideal gas heat capacity
ea:	Electron affinity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfpi:	Enthalpy of formation of positive ion at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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