(CH3)2C=NC2H5

Other names: Ethanamine, N-(2-propylidene
N,N,3,3-Tetramethylbutylamine
Inchi: InChI=1S/C8H19N/c1-8(2,3)6-7-9(4)5/h6-7H2,1-5H3
InchiKey: AEJXDZMWIUEKBG-UHFFFAOYSA-N
Formula: C5H11N
SMILES: CN(C)CCC(C)(C)C
Mol. weight [g/mol]: 85.15
CAS: 15673-04-8

Physical Properties

Property code	Value	Unit	Source
affp	973.00	kJ/mol	NIST Webbook
basg	942.00	kJ/mol	NIST Webbook
gf	130.10	kJ/mol	Joback Method
hf	-149.67	kJ/mol	Joback Method
hfus	12.08	kJ/mol	Joback Method
hvap	34.15	kJ/mol	Joback Method
ie	8.83	eV	NIST Webbook
ie	8.30	eV	NIST Webbook
log10ws	-1.50		Crippen Method
logp	1.984		Crippen Method
mcvol	133.560	ml/mol	McGowan Method
pc	2579.34	kPa	Joback Method
tb	391.65	K	Joback Method
tc	564.43	K	Joback Method
tf	214.81	K	Joback Method
vc	0.490	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	262.31	J/mol×K	391.65	Joback Method
cpg	277.98	J/mol×K	420.45	Joback Method
cpg	292.90	J/mol×K	449.24	Joback Method

cpg	307.10	J/mol×K	478.04	Joback Method
cpg	320.61	J/mol×K	506.84	Joback Method
cpg	333.45	J/mol×K	535.63	Joback Method
cpg	345.65	J/mol×K	564.43	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=C15673048&Units=SI

Legend

affp: Proton affinity
basg: Gas basicity
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
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