Isobutenyl amine, n,n-dimethyl-

Other names: 1-Propen-1-amine, N,N,2-trimethyl-
Inchi: InChI=1S/C6H13N/c1-6(2)5-7(3)4/h5H,1-4H3
InchiKey: IHSJXWLJYTXOCL-UHFFFAOYSA-N
Formula: C6H13N
SMILES: CC(C)=CN(C)C
Mol. weight [g/mol]: 99.17
CAS: 6906-32-7

Physical Properties

Property code	Value	Unit	Source
affp	967.00	kJ/mol	NIST Webbook
basg	934.50	kJ/mol	NIST Webbook
gf	182.09	kJ/mol	Joback Method
hf	7.79	kJ/mol	Joback Method
hfus	13.21	kJ/mol	Joback Method
hvap	31.03	kJ/mol	Joback Method
ie	8.15	eV	NIST Webbook
log10ws	-1.25		Crippen Method
logp	1.472		Crippen Method
mcvol	101.080	ml/mol	McGowan Method
pc	3306.75	kPa	Joback Method
tb	353.16	K	Joback Method
tc	527.98	K	Joback Method
tf	170.81	K	Joback Method
vc	0.370	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	170.27	J/mol×K	353.16	Joback Method
cpg	182.17	J/mol×K	382.30	Joback Method
cpg	193.51	J/mol×K	411.43	Joback Method
cpg	204.31	J/mol×K	440.57	Joback Method
cpg	214.58	J/mol×K	469.71	Joback Method

cpg	224.36	J/mol×K	498.84	Joback Method
cpg	233.65	J/mol×K	527.98	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=C6906327&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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