5,8-Dimethyl-1,2,3,4-tetrahydroquinoxaline

Other names: Quinoxaline, 1,2,3,4-tetrahydro-5,8-dimethyl-
Inchi: InChI=1S/C10H14N2/c1-7-3-4-8(2)10-9(7)11-5-6-12-10/h3-4,11-12H,5-6H2,1-2H3
InchiKey: DJVBBBRKTTVZCV-UHFFFAOYSA-N
Formula: C10H14N2
SMILES: Cc1ccc(C)c2c1NCCN2
Mol. weight [g/mol]: 162.23
CAS: 66102-39-4

Physical Properties

Property code	Value	Unit	Source
gf	348.62	kJ/mol	Joback Method
hf	114.99	kJ/mol	Joback Method
hfus	28.67	kJ/mol	Joback Method
hvap	56.03	kJ/mol	Joback Method
ie	6.95	eV	NIST Webbook
log10ws	-2.34		Crippen Method
logp	2.141		Crippen Method
mcvol	137.100	ml/mol	McGowan Method
pc	3655.35	kPa	Joback Method
tb	582.60	K	Joback Method
tc	826.64	K	Joback Method
tf	495.16	K	Joback Method
vc	0.511	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.55	J/mol×K	582.60	Joback Method
cpg	341.14	J/mol×K	623.27	Joback Method
cpg	355.78	J/mol×K	663.95	Joback Method
cpg	369.50	J/mol×K	704.62	Joback Method
cpg	382.33	J/mol×K	745.29	Joback Method
cpg	394.32	J/mol×K	785.97	Joback Method
cpg	405.50	J/mol×K	826.64	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=C66102394&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
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