Tetrahydroquinoxaline

Other names:	Quinoxaline, 1,2,3,4-tetrahydro-
	1,2,3,4-Tetrahydroquinoxaline
	Benzo(2,3)piperazine, tetrahydro-
Inchi:	InChI=1S/C8H10N2/c1-2-4-8-7(3-1)9-5-6-10-8/h1-4,9-10H,5-6H2
InchiKey:	HORKYAIEVBUXGM-UHFFFAOYSA-N
Formula:	C8H10N2
SMILES:	c1ccc2c(c1)NCCN2
Mol. weight [g/mol]:	134.18
CAS:	3476-89-9

Physical Properties

Property code	Value	Unit	Source
gf	351.04	kJ/mol	Joback Method
hf	179.21	kJ/mol	Joback Method
hfus	24.27	kJ/mol	Joback Method
hvap	50.25	kJ/mol	Joback Method
ie	7.16	eV	NIST Webbook
log10ws	-1.38		Crippen Method
logp	1.524		Crippen Method
mcvol	108.920	ml/mol	McGowan Method
pc	4876.56	kPa	Joback Method
tb	526.88	K	Joback Method
tc	779.29	K	Joback Method
tf	447.58	K	Joback Method
vc	0.400	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	235.14	J/mol×K	526.88	Joback Method
cpg	249.50	J/mol×K	568.95	Joback Method
cpg	262.85	J/mol×K	611.02	Joback Method
cpg	275.25	J/mol×K	653.08	Joback Method
cpg	286.74	J/mol×K	695.15	Joback Method

cpg	297.38	J/mol×K	737.22	Joback Method
cpg	307.22	J/mol×K	779.29	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3476899&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
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