Pyridine, 2,3,4,5-tetrahydro-

Other names: «delta»1-Piperideine
1-Piperideine
2,3,4,5-Tetrahydropyridine
Tetrahydropyridine
Inchi: InChI=1S/C5H9N/c1-2-4-6-5-3-1/h4H,1-3,5H2
InchiKey: DWKUKQRKVCMOLP-UHFFFAOYSA-N
Formula: C5H9N
SMILES: C1=NCCCC1
Mol. weight [g/mol]: 83.13
CAS: 505-18-0

Physical Properties

Property code	Value	Unit	Source
gf	170.12	kJ/mol	Joback Method
hf	56.88	kJ/mol	Joback Method
hfus	5.83	kJ/mol	Joback Method
hvap	33.96	kJ/mol	Joback Method
ie	8.95	eV	NIST Webbook
ie	8.20	eV	NIST Webbook
log10ws	-0.97		Crippen Method
logp	1.241		Crippen Method
mcvol	76.130	ml/mol	McGowan Method
pc	4938.44	kPa	Joback Method
rinpol	796.00		NIST Webbook
rinpol	796.00		NIST Webbook
tb	390.88	K	Joback Method
tc	615.07	K	Joback Method
tf	230.03	K	Joback Method
vc	0.284	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	134.36	J/mol×K	390.88	Joback Method

cpg	148.44	J/mol×K	428.25	Joback Method
cpg	161.79	J/mol×K	465.61	Joback Method
cpg	174.42	J/mol×K	502.98	Joback Method
cpg	186.35	J/mol×K	540.34	Joback Method
cpg	197.59	J/mol×K	577.71	Joback Method
cpg	208.14	J/mol×K	615.07	Joback Method

Sources

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=C505180&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume