4-(para-Chlorophenyl)-4-hydroxypiperidine

Other names:	4-(p-Chlorophenyl)-4-hydroxypiperidine
	4-(4-Chlorophenyl)piperidinol-4
	4-(4-Chlorophenyl)-4-hydroxypiperidine
	4-Piperidinol, 4-(4-chlorophenyl)-
	4-(p-Chlorophenyl)-4-piperidinol
	4-(4-Chlorophenyl)-4-piperidinol
	4-Hydroxy-4-(p-chlorophenyl)piperidine
	4-Hydroxy-4-(4-chlorophenyl)piperidine
	4-(p-Chlorophenyl)piperidin-4-ol
Inchi:	InChI=1S/C11H14ClNO/c12-10-3-1-9(2-4-10)11(14)5-7-13-8-6-11/h1-4,13-14H,5-8H2
InchiKey:	LZAYOZUFUAMFLD-UHFFFAOYSA-N
Formula:	C11H14ClNO
SMILES:	OC1(c2ccc(Cl)cc2)CCNCC1
Mol. weight [g/mol]:	211.69
CAS:	39512-49-7

Physical Properties

Property code	Value	Unit	Source
gf	102.44	kJ/mol	Joback Method
hf	-105.91	kJ/mol	Joback Method
hfus	21.31	kJ/mol	Joback Method
hvap	70.12	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	1.911		Crippen Method
mcvol	159.320	ml/mol	McGowan Method
pc	3773.04	kPa	Joback Method
tb	680.69	K	Joback Method
tc	921.35	K	Joback Method
tf	479.72	K	Joback Method
vc	0.580	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	414.06	J/mol×K	680.69	Joback Method
cpg	428.51	J/mol×K	720.80	Joback Method
cpg	442.17	J/mol×K	760.91	Joback Method
cpg	455.18	J/mol×K	801.02	Joback Method
cpg	467.72	J/mol×K	841.13	Joback Method
cpg	479.94	J/mol×K	881.24	Joback Method
cpg	492.01	J/mol×K	921.35	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=C39512497&Units=SI

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

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