1-(P-chlorophenyl)cyclohexanol

Inchi: InChI=1S/C12H15ClO/c13-11-6-4-10(5-7-11)12(14)8-2-1-3-9-12/h4-7,14H,1-3,8-9H2
InchiKey: WSXSGCNVGCTIIZ-UHFFFAOYSA-N
Formula: C12H15ClO
SMILES: OC1(c2ccc(Cl)cc2)CCCCC1
Mol. weight [g/mol]: 210.70
CAS: 17380-83-5

Physical Properties

Property code	Value	Unit	Source
gf	23.15	kJ/mol	Joback Method
hf	-164.36	kJ/mol	Joback Method
hfus	14.31	kJ/mol	Joback Method
hvap	65.59	kJ/mol	Joback Method
log10ws	-3.96		Crippen Method
logp	3.492		Crippen Method
mcvol	163.430	ml/mol	McGowan Method
pc	3269.04	kPa	Joback Method
tb	655.02	K	Joback Method
tc	888.63	K	Joback Method
tf	385.96	K	Joback Method
vc	0.599	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	420.75	J/mol×K	655.02	Joback Method
cpg	435.93	J/mol×K	693.95	Joback Method
cpg	450.19	J/mol×K	732.89	Joback Method
cpg	463.69	J/mol×K	771.82	Joback Method
cpg	476.60	J/mol×K	810.76	Joback Method
cpg	489.08	J/mol×K	849.69	Joback Method
cpg	501.30	J/mol×K	888.63	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=C17380835&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
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