

p-Chlorophenylhydroxylamine

Other names:	Benzenamine, 4-chloro-N-hydroxy- Hydroxylamine, N-(p-chlorophenyl)- N-(p-Chlorophenyl)hydroxylamine N-(4-Chlorophenyl)hydroxylamine 4-Chlorophenylhydroxylamine
Inchi:	InChI=1S/C6H6ClNO/c7-5-1-3-6(8-9)4-2-5/h1-4,8-9H
InchiKey:	VVQDMDRAUXFEND-UHFFFAOYSA-N
Formula:	C6H6ClNO
SMILES:	ONc1ccc(Cl)cc1
Mol. weight [g/mol]:	143.57
CAS:	823-86-9

Physical Properties

Property code	Value	Unit	Source
gf	43.06	kJ/mol	Joback Method
hf	-56.61	kJ/mol	Joback Method
hfus	18.33	kJ/mol	Joback Method
hvap	59.39	kJ/mol	Joback Method
log10ws	-1.40		Crippen Method
logp	2.141		Crippen Method
mcvol	99.730	ml/mol	McGowan Method
pc	5029.93	kPa	Joback Method
tb	548.12	K	Joback Method
tc	758.58	K	Joback Method
tf	339.72	K	Joback Method
vc	0.366	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	202.41	J/mol×K	548.12	Joback Method
cpg	210.29	J/mol×K	583.20	Joback Method
cpg	217.66	J/mol×K	618.27	Joback Method
cpg	224.54	J/mol×K	653.35	Joback Method

cpg	230.95	J/mol×K	688.43	Joback Method
cpg	236.92	J/mol×K	723.51	Joback Method
cpg	242.47	J/mol×K	758.58	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=C823869&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
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

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