Benzenamine, 4-chloro-n-hydroxy-

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

Physical Properties

Property code	Value	Unit	Source
hf	-41.53	kJ/mol	Cheméo Relay (1.0)
hfus	18.33	kJ/mol	Joback Method
hvap	84.28	kJ/mol	Cheméo Relay (1.0)
ie	8.09	eV	Cheméo Relay (1.0)
log10ws	-1.11		Cheméo Relay (1.0)
logp	2.141		Crippen Method
mcvol	99.730	ml/mol	McGowan Method
tb	521.54	K	Cheméo Relay (1.0)
tf	389.87	K	Cheméo Relay (1.0)

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

Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C823869&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point