

4'-Chloro-2-hydroxy-5-methylbenzophenone

Inchi:	InChI=1S/C14H11ClO2/c1-9-2-7-13(16)12(8-9)14(17)10-3-5-11(15)6-4-10/h2-8,16H,1H3
InchiKey:	GANGXBRARYTWTE-UHFFFAOYSA-N
Formula:	C14H11ClO2
SMILES:	<chem>Cc1ccc(O)c(C(=O)c2ccc(Cl)cc2)c1</chem>
Mol. weight [g/mol]:	246.69
CAS:	6279-05-6

Physical Properties

Property code	Value	Unit	Source
gf	-22.91	kJ/mol	Joback Method
hf	-187.80	kJ/mol	Joback Method
hfus	30.90	kJ/mol	Joback Method
hvap	76.78	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	3.585		Crippen Method
mcvol	180.280	ml/mol	McGowan Method
pc	3246.73	kPa	Joback Method
tb	754.96	K	Joback Method
tc	1012.67	K	Joback Method
tf	516.99	K	Joback Method
vc	0.625	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	458.89	J/molxK	754.96	Joback Method
cpg	470.89	J/molxK	797.91	Joback Method
cpg	482.03	J/molxK	840.86	Joback Method
cpg	492.46	J/molxK	883.81	Joback Method
cpg	502.31	J/molxK	926.76	Joback Method
cpg	511.73	J/molxK	969.72	Joback Method
cpg	520.84	J/molxK	1012.67	Joback Method
dvisc	0.0002044	Paxs	516.99	Joback Method
dvisc	0.0001096	Paxs	556.65	Joback Method

dvisc	0.0000638	Paxs	596.31	Joback Method
dvisc	0.0000398	Paxs	635.98	Joback Method
dvisc	0.0000262	Paxs	675.64	Joback Method
dvisc	0.0000181	Paxs	715.30	Joback Method
dvisc	0.0000130	Paxs	754.96	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=C6279056&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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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