

4'-Chloro-2-hydroxy-5-isopropylbenzophenone

Inchi:	InChI=1S/C16H15ClO2/c1-10(2)12-5-8-15(18)14(9-12)16(19)11-3-6-13(17)7-4-11/h3-10,
InchiKey:	DJOYMWXKPGWCNA-UHFFFAOYSA-N
Formula:	C16H15ClO2
SMILES:	CC(C)c1ccc(O)c(C(=O)c2ccc(Cl)cc2)c1
Mol. weight [g/mol]:	274.74

Physical Properties

Property code	Value	Unit	Source
gf	-8.51	kJ/mol	Joback Method
hf	-234.36	kJ/mol	Joback Method
hfus	32.56	kJ/mol	Joback Method
hvap	80.84	kJ/mol	Joback Method
log10ws	-4.85		Crippen Method
logp	4.400		Crippen Method
mcvol	208.460	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
tb	800.28	K	Joback Method
tc	1051.79	K	Joback Method
tf	524.53	K	Joback Method
vc	0.731	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	565.02	J/molxK	800.28	Joback Method
cpg	578.35	J/molxK	842.20	Joback Method
cpg	590.80	J/molxK	884.12	Joback Method
cpg	602.54	J/molxK	926.04	Joback Method
cpg	613.69	J/molxK	967.95	Joback Method
cpg	624.39	J/molxK	1009.87	Joback Method
cpg	634.78	J/molxK	1051.79	Joback Method
dvisc	0.0001815	Paxs	524.53	Joback Method
dvisc	0.0000875	Paxs	570.49	Joback Method
dvisc	0.0000470	Paxs	616.45	Joback Method

dvisc	0.0000276	Paxs	662.40	Joback Method
dvisc	0.0000173	Paxs	708.36	Joback Method
dvisc	0.0000115	Paxs	754.32	Joback Method
dvisc	0.0000080	Paxs	800.28	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6004144&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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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