6-Chloro-2,4-diisopropyl phenol

Inchi: InChI=1S/C12H17ClO/c1-7(2)9-5-10(8(3)4)12(14)11(13)6-9/h5-8,14H,1-4H3
InchiKey: SVBPZUZWTSMLKY-UHFFFAOYSA-N
Formula: C12H17ClO
SMILES: CC(C)c1cc(Cl)c(O)c(C(C)C)c1
Mol. weight [g/mol]: 212.72
CAS: 102127-39-9

Physical Properties

Property code	Value	Unit	Source
gf	-28.12	kJ/mol	Joback Method
hf	-281.03	kJ/mol	Joback Method
hfus	23.03	kJ/mol	Joback Method
hvap	62.53	kJ/mol	Joback Method
log10ws	-4.07		Crippen Method
logp	4.292		Crippen Method
mcvol	174.290	ml/mol	McGowan Method
pc	2654.29	kPa	Joback Method
tb	627.77	K	Joback Method
tc	853.57	K	Joback Method
tf	388.10	K	Joback Method
vc	0.603	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	432.39	J/mol×K	627.77	Joback Method
cpg	496.61	J/mol×K	815.93	Joback Method
cpg	485.23	J/mol×K	778.30	Joback Method
cpg	473.19	J/mol×K	740.67	Joback Method
cpg	460.42	J/mol×K	703.04	Joback Method
cpg	446.85	J/mol×K	665.40	Joback Method
cpg	507.43	J/mol×K	853.57	Joback Method
dvisc	0.0000238	Pa×s	627.77	Joback Method
dvisc	0.0000372	Pa×s	587.83	Joback Method

dvisc	0.0000620	Pa×s	547.88	Joback Method
dvisc	0.0001122	Pa×s	507.94	Joback Method
dvisc	0.0002247	Pa×s	467.99	Joback Method
dvisc	0.0005120	Pa×s	428.05	Joback Method
dvisc	0.0013825	Pa×s	388.10	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=C102127399&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
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