

Isopropyl 3-chloro-5-formyl-4,6-dihydroxy-2-methylbenzoate

Inchi:	InChI=1S/C12H13ClO5/c1-5(2)18-12(17)8-6(3)9(13)11(16)7(4-14)10(8)15/h4-5,15-16H,1
InchiKey:	NKIVWTXLVQIYGX-UHFFFAOYSA-N
Formula:	C12H13ClO5
SMILES:	Cc1c(Cl)c(O)c(C=O)c(O)c1C(=O)OC(C)C
Mol. weight [g/mol]:	272.68
CAS:	959266-90-1

Physical Properties

Property code	Value	Unit	Source
gf	-523.37	kJ/mol	Joback Method
hf	-794.91	kJ/mol	Joback Method
hfus	37.03	kJ/mol	Joback Method
hvap	92.47	kJ/mol	Joback Method
log10ws	-3.16		Crippen Method
logp	2.437		Crippen Method
mcvol	189.170	ml/mol	McGowan Method
pc	3480.65	kPa	Joback Method
rinpol	2001.20		NIST Webbook
rinpol	2001.20		NIST Webbook
tb	838.76	K	Joback Method
tc	1072.70	K	Joback Method
tf	641.50	K	Joback Method
vc	0.616	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	521.94	J/molxK	838.76	Joback Method
cpg	532.12	J/molxK	877.75	Joback Method
cpg	542.03	J/molxK	916.74	Joback Method
cpg	551.76	J/molxK	955.73	Joback Method
cpg	561.41	J/molxK	994.72	Joback Method
cpg	571.10	J/molxK	1033.71	Joback Method
cpg	580.92	J/molxK	1072.70	Joback Method

dvisc	0.0000069	Paxs	641.50	Joback Method
dvisc	0.0000040	Paxs	674.38	Joback Method
dvisc	0.0000024	Paxs	707.25	Joback Method
dvisc	0.0000016	Paxs	740.13	Joback Method
dvisc	0.0000010	Paxs	773.01	Joback Method
dvisc	0.0000007	Paxs	805.88	Joback Method
dvisc	0.0000005	Paxs	838.76	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=C959266901&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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