

# Ethyl 3-chloro-6-hydroxy-4-methoxy-2-methylbenzoate

<b>Inchi:</b>	InChI=1S/C11H13ClO4/c1-4-16-11(14)9-6(2)10(12)8(15-3)5-7(9)13/h5,13H,4H2,1-3H3
<b>InchiKey:</b>	DTAMIZHNUNMPJD-UHFFFAOYSA-N
<b>Formula:</b>	C11H13ClO4
<b>SMILES:</b>	CCOC(=O)c1c(O)cc(OC)c(Cl)c1C
<b>Mol. weight [g/mol]:</b>	244.67
<b>CAS:</b>	57074-24-5

## Physical Properties

Property code	Value	Unit	Source
gf	-380.21	kJ/mol	Joback Method
hf	-638.32	kJ/mol	Joback Method
hfus	31.07	kJ/mol	Joback Method
hvap	73.31	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	2.539		Crippen Method
mcvol	173.510	ml/mol	McGowan Method
pc	2931.34	kPa	Joback Method
rinpol	1874.70		NIST Webbook
rinpol	1874.70		NIST Webbook
tb	709.46	K	Joback Method
tc	931.85	K	Joback Method
tf	513.74	K	Joback Method
vc	0.601	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	442.40	J/molxK	709.46	Joback Method
cpg	493.10	J/molxK	894.78	Joback Method
cpg	484.11	J/molxK	857.72	Joback Method
cpg	474.57	J/molxK	820.65	Joback Method
cpg	464.46	J/molxK	783.59	Joback Method
cpg	453.75	J/molxK	746.52	Joback Method
cpg	501.57	J/molxK	931.85	Joback Method

dvisc	0.0000130	Paxs	709.46	Joback Method
dvisc	0.0000176	Paxs	676.84	Joback Method
dvisc	0.0000244	Paxs	644.22	Joback Method
dvisc	0.0000352	Paxs	611.60	Joback Method
dvisc	0.0000527	Paxs	578.98	Joback Method
dvisc	0.0000830	Paxs	546.36	Joback Method
dvisc	0.0001385	Paxs	513.74	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C57074245&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C57074245&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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