

# 2,6-Difluoro-3-methylbenzoic acid, 4-chloro-2-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C15H11ClF2O2/c1-8-3-5-11(17)13(14(8)18)15(19)20-12-6-4-10(16)7-9(12)2/h
<b>InchiKey:</b>	MOBJPHUSMMTUBV-UHFFFAOYSA-N
<b>Formula:</b>	C15H11ClF2O2
<b>SMILES:</b>	Cc1cc(Cl)ccc1OC(=O)c1c(F)ccc(C)c1F
<b>Mol. weight [g/mol]:</b>	296.70

## Physical Properties

Property code	Value	Unit	Source
gf	-383.38	kJ/mol	Joback Method
hf	-589.98	kJ/mol	Joback Method
hfus	33.89	kJ/mol	Joback Method
hvap	68.75	kJ/mol	Joback Method
log10ws	-5.86		Crippen Method
logp	4.454		Crippen Method
mcvol	197.910	ml/mol	McGowan Method
pc	2159.31	kPa	Joback Method
rinpol	2066.00		NIST Webbook
tb	733.12	K	Joback Method
tc	957.24	K	Joback Method
tf	477.51	K	Joback Method
vc	0.768	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	501.74	J/molxK	733.12	Joback Method
cpg	514.14	J/molxK	770.47	Joback Method
cpg	525.62	J/molxK	807.83	Joback Method
cpg	536.21	J/molxK	845.18	Joback Method
cpg	545.91	J/molxK	882.54	Joback Method
cpg	554.75	J/molxK	919.89	Joback Method
cpg	562.75	J/molxK	957.24	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=U343757&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U343757&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvac:</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>mccol:</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

Latest version available from:

<https://www.chemeo.com/cid/93-579-7/2-6-Difluoro-3-methylbenzoic-acid-4-chloro-2-methylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-26 06:11:40.170514697 +0000 UTC m=+16401149.091092019.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.