

# 2,6-Difluoro-3-methylbenzoic acid, 3,4-dichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C14H8Cl2F2O2/c1-7-2-5-11(17)12(13(7)18)14(19)20-8-3-4-9(15)10(16)6-8/h2
<b>InchiKey:</b>	KVIJWMIURLLPQR-UHFFFAOYSA-N
<b>Formula:</b>	C14H8Cl2F2O2
<b>SMILES:</b>	Cc1ccc(F)c(C(=O)Oc2ccc(Cl)c(Cl)c2)c1F
<b>Mol. weight [g/mol]:</b>	317.12

## Physical Properties

Property code	Value	Unit	Source
gf	-403.73	kJ/mol	Joback Method
hf	-585.08	kJ/mol	Joback Method
hfus	35.49	kJ/mol	Joback Method
hvap	70.91	kJ/mol	Joback Method
log10ws	-6.07		Crippen Method
logp	4.799		Crippen Method
mcvol	196.060	ml/mol	McGowan Method
pc	2282.77	kPa	Joback Method
rinsol	2167.00		NIST Webbook
tb	747.67	K	Joback Method
tc	978.33	K	Joback Method
tf	496.16	K	Joback Method
vc	0.761	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	472.31	J/mol×K	747.67	Joback Method
cpg	483.11	J/mol×K	786.11	Joback Method
cpg	493.02	J/mol×K	824.56	Joback Method
cpg	502.07	J/mol×K	863.00	Joback Method
cpg	510.27	J/mol×K	901.45	Joback Method
cpg	517.65	J/mol×K	939.89	Joback Method
cpg	524.21	J/mol×K	978.33	Joback Method

# Sources

<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=U357686&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357686&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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

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