

# 3,4-Difluorobenzoic acid, 3-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C14H10F2O2/c1-9-3-2-4-11(7-9)18-14(17)10-5-6-12(15)13(16)8-10/h2-8H,1H3
<b>InchiKey:</b>	FANNNNLZCWNRFB-UHFFFAOYSA-N
<b>Formula:</b>	C14H10F2O2
<b>SMILES:</b>	Cc1cccc(OC(=O)c2ccc(F)c(F)c2)c1
<b>Mol. weight [g/mol]:</b>	248.22

## Physical Properties

Property code	Value	Unit	Source
gf	-360.61	kJ/mol	Joback Method
hf	-530.66	kJ/mol	Joback Method
hfus	27.88	kJ/mol	Joback Method
hvap	60.82	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	3.492		Crippen Method
mcvol	171.580	ml/mol	McGowan Method
pc	2527.73	kPa	Joback Method
rinqol	1739.00		NIST Webbook
tb	662.85	K	Joback Method
tc	886.28	K	Joback Method
tf	411.28	K	Joback Method
vc	0.663	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.07	J/molxK	662.85	Joback Method
cpg	442.31	J/molxK	700.09	Joback Method
cpg	454.63	J/molxK	737.33	Joback Method
cpg	466.03	J/molxK	774.57	Joback Method
cpg	476.55	J/molxK	811.80	Joback Method
cpg	486.21	J/molxK	849.04	Joback Method
cpg	495.04	J/molxK	886.28	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=U357711&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357711&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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