

# 2,4-Difluorobenzoic acid, 2-methylpentyl ester

<b>Inchi:</b>	InChI=1S/C13H16F2O2/c1-3-4-9(2)8-17-13(16)11-6-5-10(14)7-12(11)15/h5-7,9H,3-4,8H
<b>InchiKey:</b>	TVXQZPVXBBFEAT-UHFFFAOYSA-N
<b>Formula:</b>	C13H16F2O2
<b>SMILES:</b>	CCCC(C)COC(=O)c1ccc(F)cc1F
<b>Mol. weight [g/mol]:</b>	242.26

## Physical Properties

Property code	Value	Unit	Source
gf	-474.25	kJ/mol	Joback Method
hf	-740.36	kJ/mol	Joback Method
hfus	28.11	kJ/mol	Joback Method
hvap	55.27	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	3.558		Crippen Method
mcvol	181.250	ml/mol	McGowan Method
pc	2064.24	kPa	Joback Method
rinsol	1504.00		NIST Webbook
tb	607.87	K	Joback Method
tc	799.01	K	Joback Method
tf	346.07	K	Joback Method
vc	0.710	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	459.33	J/mol×K	607.87	Joback Method
cpg	473.63	J/mol×K	639.73	Joback Method
cpg	487.21	J/mol×K	671.58	Joback Method
cpg	500.06	J/mol×K	703.44	Joback Method
cpg	512.21	J/mol×K	735.30	Joback Method
cpg	523.67	J/mol×K	767.15	Joback Method
cpg	534.45	J/mol×K	799.01	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=U360556&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360556&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

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