

# 2-Fluorobenzoic acid, 3-methylbut-2-enyl ester

<b>Inchi:</b>	InChI=1S/C12H13FO2/c1-9(2)7-8-15-12(14)10-5-3-4-6-11(10)13/h3-7H,8H2,1-2H3
<b>InchiKey:</b>	MEDMSMBQEOOHBM-UHFFFAOYSA-N
<b>Formula:</b>	C12H13FO2
<b>SMILES:</b>	CC(C)=CCOC(=O)c1ccccc1F
<b>Mol. weight [g/mol]:</b>	208.23

## Physical Properties

Property code	Value	Unit	Source
gf	-204.12	kJ/mol	Joback Method
hf	-399.43	kJ/mol	Joback Method
hfus	25.25	kJ/mol	Joback Method
hvap	53.62	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	2.949		Crippen Method
mcvol	161.090	ml/mol	McGowan Method
pc	2510.03	kPa	Joback Method
rinpola	1475.00		NIST Webbook
tb	585.22	K	Joback Method
tc	794.67	K	Joback Method
tf	317.65	K	Joback Method
vc	0.623	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.89	J/mol×K	585.22	Joback Method
cpg	395.78	J/mol×K	620.13	Joback Method
cpg	408.85	J/mol×K	655.04	Joback Method
cpg	421.14	J/mol×K	689.94	Joback Method
cpg	432.66	J/mol×K	724.85	Joback Method
cpg	443.46	J/mol×K	759.76	Joback Method
cpg	453.56	J/mol×K	794.67	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U299162&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299162&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>
<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>

# 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>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>rinpola:</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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