

# 6-Fluoro-3-trifluoromethylbenzoic acid, 2-methylbutyl ester

<b>Other names:</b>	6-Fluoro-3-trifluorobenzoic acid, 2-methylbutyl ester
<b>Inchi:</b>	InChI=1S/C13H14F4O2/c1-3-8(2)7-19-12(18)10-6-9(13(15,16)17)4-5-11(10)14/h4-6,8H,3
<b>InchiKey:</b>	HTVJVIKHKXDGN-UHFFFAOYSA-N
<b>Formula:</b>	C13H14F4O2
<b>SMILES:</b>	CCC(C)COC(=O)c1cc(C(F)(F)F)ccc1F
<b>Mol. weight [g/mol]:</b>	278.24

## Physical Properties

Property code	Value	Unit	Source
gf	-861.03	kJ/mol	Joback Method
hf	-1141.33	kJ/mol	Joback Method
hfus	26.86	kJ/mol	Joback Method
hvap	52.34	kJ/mol	Joback Method
log10ws	-4.58		Crippen Method
logp	4.047		Crippen Method
mcvol	184.790	ml/mol	McGowan Method
pc	1937.24	kPa	Joback Method
rinpol	1416.00		NIST Webbook
rinpol	1416.00		NIST Webbook
tb	603.18	K	Joback Method
tc	788.04	K	Joback Method
tf	349.67	K	Joback Method
vc	0.735	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	478.78	J/mol×K	603.18	Joback Method
cpg	492.48	J/mol×K	633.99	Joback Method
cpg	505.40	J/mol×K	664.80	Joback Method
cpg	517.57	J/mol×K	695.61	Joback Method
cpg	529.02	J/mol×K	726.42	Joback Method
cpg	539.78	J/mol×K	757.23	Joback Method
cpg	549.87	J/mol×K	788.04	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=U343780&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U343780&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>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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