

# 3-Fluoro-4-trifluoromethylbenzoic acid, 4-methoxy-2-methylbutyl ester

<b>Inchi:</b>	InChI=1S/C14H16F4O3/c1-9(5-6-20-2)8-21-13(19)10-3-4-11(12(15)7-10)14(16,17)18/h3
<b>InchiKey:</b>	XVCPKRAUPVVGTF-UHFFFAOYSA-N
<b>Formula:</b>	C14H16F4O3
<b>SMILES:</b>	COCCC(C)COC(=O)c1ccc(C(F)(F)F)c(F)c1
<b>Mol. weight [g/mol]:</b>	308.27

## Physical Properties

Property code	Value	Unit	Source
gf	-957.61	kJ/mol	Joback Method
hf	-1294.19	kJ/mol	Joback Method
hfus	30.64	kJ/mol	Joback Method
hvap	56.97	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.674		Crippen Method
mcvol	204.750	ml/mol	McGowan Method
pc	1758.02	kPa	Joback Method
rinsol	1608.00		NIST Webbook
tb	648.48	K	Joback Method
tc	831.04	K	Joback Method
tf	383.17	K	Joback Method
vc	0.808	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	555.96	J/mol×K	648.48	Joback Method
cpg	569.91	J/mol×K	678.91	Joback Method
cpg	583.07	J/mol×K	709.33	Joback Method
cpg	595.48	J/mol×K	739.76	Joback Method
cpg	607.16	J/mol×K	770.19	Joback Method
cpg	618.11	J/mol×K	800.61	Joback Method
cpg	628.36	J/mol×K	831.04	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=U360597&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360597&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>mccvol:</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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