

# 2-Fluoro-6-trifluoromethylbenzoic acid, 3,5-difluorophenyl ester

<b>Inchi:</b>	InChI=1S/C14H6F6O2/c15-7-4-8(16)6-9(5-7)22-13(21)12-10(14(18,19)20)2-1-3-11(12)17
<b>InchiKey:</b>	RWTMNAICUJNIOF-UHFFFAOYSA-N
<b>Formula:</b>	C14H6F6O2
<b>SMILES:</b>	O=C(Oc1cc(F)cc(F)c1)c1c(F)cccc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	320.19

## Physical Properties

Property code	Value	Unit	Source
gf	-1146.64	kJ/mol	Joback Method
hf	-1335.32	kJ/mol	Joback Method
hfus	32.40	kJ/mol	Joback Method
hvap	56.92	kJ/mol	Joback Method
log10ws	-5.66		Crippen Method
logp	4.342		Crippen Method
mcvol	178.660	ml/mol	McGowan Method
pc	2133.46	kPa	Joback Method
rinpol	1526.00		NIST Webbook
rinpol	1526.00		NIST Webbook
tb	661.68	K	Joback Method
tc	860.81	K	Joback Method
tf	428.58	K	Joback Method
vc	0.725	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	463.43	J/mol×K	661.68	Joback Method
cpg	474.59	J/mol×K	694.87	Joback Method
cpg	484.94	J/mol×K	728.06	Joback Method
cpg	494.52	J/mol×K	761.25	Joback Method
cpg	503.37	J/mol×K	794.43	Joback Method
cpg	511.52	J/mol×K	827.62	Joback Method
cpg	519.00	J/mol×K	860.81	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=U357692&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357692&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>hvp:</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>rinp:</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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