

# 6-Fluoro-2-trifluoromethylbenzoic acid,4-chloro-2-methylphenyl ester

<b>Other names:</b>	6-Fluoro-2-trifluorobenzoic acid, 4-chloro-2-methylphenyl ester
<b>Inchi:</b>	InChI=1S/C15H9ClF4O2/c1-8-7-9(16)5-6-12(8)22-14(21)13-10(15(18,19)20)3-2-4-11(13)
<b>InchiKey:</b>	KWORTRPISKVFMR-UHFFFAOYSA-N
<b>Formula:</b>	C15H9ClF4O2
<b>SMILES:</b>	<chem>Cc1cc(Cl)ccc1OC(=O)c1c(F)cccc1C(F)(F)F</chem>
<b>Mol. weight [g/mol]:</b>	332.68

## Physical Properties

Property code	Value	Unit	Source
gf	-760.53	kJ/mol	Joback Method
hf	-979.48	kJ/mol	Joback Method
hfus	33.02	kJ/mol	Joback Method
hvap	65.16	kJ/mol	Joback Method
log10ws	-6.15		Crippen Method
logp	5.026		Crippen Method
mcvol	201.450	ml/mol	McGowan Method
pc	2051.17	kPa	Joback Method
rinpol	1915.00		NIST Webbook
rinpol	1915.00		NIST Webbook
tb	723.45	K	Joback Method
tc	939.89	K	Joback Method
tf	468.59	K	Joback Method
vc	0.793	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	521.63	J/molxK	723.45	Joback Method
cpg	533.27	J/molxK	759.52	Joback Method
cpg	544.00	J/molxK	795.60	Joback Method
cpg	553.85	J/molxK	831.67	Joback Method
cpg	562.87	J/molxK	867.74	Joback Method
cpg	571.09	J/molxK	903.82	Joback Method
cpg	578.58	J/molxK	939.89	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U343741&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U343741&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>hvpap:</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>rinppl:</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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