

# 3-Methoxy-2,4,5-trifluorobenzoic acid, pentafluorophenyl ester

<b>Inchi:</b>	InChI=1S/C14H4F8O3/c1-24-12-5(16)3(2-4(15)6(12)17)14(23)25-13-10(21)8(19)7(18)9(2)
<b>InchiKey:</b>	CBCCZOBRSVJIKZ-UHFFFAOYSA-N
<b>Formula:</b>	C14H4F8O3
<b>SMILES:</b>	COc1c(F)c(F)cc(C(=O)Oc2c(F)c(F)c(F)c(F)c2F)c1F
<b>Mol. weight [g/mol]:</b>	372.17

## Physical Properties

Property code	Value	Unit	Source
gf	-1692.25	kJ/mol	Joback Method
hf	-1908.36	kJ/mol	Joback Method
hfus	45.21	kJ/mol	Joback Method
hvap	62.30	kJ/mol	Joback Method
log10ws	-6.33		Crippen Method
logp	4.027		Crippen Method
mcvol	188.070	ml/mol	McGowan Method
pc	1786.37	kPa	Joback Method
rinpol	1619.00		NIST Webbook
rinpol	1619.00		NIST Webbook
tb	710.77	K	Joback Method
tc	892.37	K	Joback Method
tf	512.17	K	Joback Method
vc	0.789	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	493.75	J/molxK	710.77	Joback Method
cpg	503.10	J/molxK	741.04	Joback Method
cpg	511.92	J/molxK	771.30	Joback Method
cpg	520.19	J/molxK	801.57	Joback Method
cpg	527.90	J/molxK	831.83	Joback Method
cpg	535.03	J/molxK	862.10	Joback Method
cpg	541.57	J/molxK	892.37	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360570&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360570&amp;Units=SI</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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