

# 3-Fluoro-6-trifluoromethylbenzoic acid, 2-(1-phenyleth-1-yl)-4-methoxyphenyl ester

<b>Inchi:</b>	InChI=1S/C23H18F4O3/c1-14(15-6-4-3-5-7-15)18-13-17(29-2)9-11-21(18)30-22(28)19-1
<b>InchiKey:</b>	DKBWHCRDNDVQRC-UHFFFAOYSA-N
<b>Formula:</b>	C23H18F4O3
<b>SMILES:</b>	COc1ccc(OC(=O)c2cc(F)ccc2C(F)(F)F)c(C(C)c2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	418.38

## Physical Properties

Property code	Value	Unit	Source
gf	-676.27	kJ/mol	Joback Method
hf	-1029.83	kJ/mol	Joback Method
hfus	41.25	kJ/mol	Joback Method
hvap	82.88	kJ/mol	Joback Method
log10ws	-7.60		Crippen Method
logp	6.224		Crippen Method
mvol	284.040	ml/mol	McGowan Method
pc	1460.13	kPa	Joback Method
rinpol	2515.00		NIST Webbook
rinpol	2515.00		NIST Webbook
tb	917.72	K	Joback Method
tc	1145.42	K	Joback Method
tf	562.48	K	Joback Method
vc	1.097	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	868.82	J/molxK	917.72	Joback Method
cpg	881.40	J/molxK	955.67	Joback Method
cpg	892.71	J/molxK	993.62	Joback Method
cpg	902.83	J/molxK	1031.57	Joback Method
cpg	911.83	J/molxK	1069.52	Joback Method
cpg	919.78	J/molxK	1107.47	Joback Method
cpg	926.76	J/molxK	1145.42	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=U358085&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358085&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>

# 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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