

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

<b>Inchi:</b>	InChI=1S/C23H35F3O3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-29-23(27)18-17-19(24)2
<b>InchiKey:</b>	YCZAUIKJMXBMLS-UHFFFAOYSA-N
<b>Formula:</b>	C23H35F3O3
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)c1cc(F)c(F)c(OC)c1F
<b>Mol. weight [g/mol]:</b>	416.52

## Physical Properties

Property code	Value	Unit	Source
gf	-706.68	kJ/mol	Joback Method
hf	-1292.75	kJ/mol	Joback Method
hfus	61.03	kJ/mol	Joback Method
hvap	80.83	kJ/mol	Joback Method
log10ws	-8.69		Crippen Method
logp	7.361		Crippen Method
mvol	329.790	ml/mol	McGowan Method
pc	940.37	kPa	Joback Method
rinpol	2662.00		NIST Webbook
rinpol	2662.00		NIST Webbook
tb	868.76	K	Joback Method
tc	1063.64	K	Joback Method
tf	521.63	K	Joback Method
vc	1.312	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1058.55	J/mol×K	868.76	Joback Method
cpg	1076.16	J/mol×K	901.24	Joback Method
cpg	1092.58	J/mol×K	933.72	Joback Method
cpg	1107.83	J/mol×K	966.20	Joback Method
cpg	1121.92	J/mol×K	998.68	Joback Method
cpg	1134.87	J/mol×K	1031.16	Joback Method
cpg	1146.70	J/mol×K	1063.64	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=U338772&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338772&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>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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