

# 2,4,5-Trifluoro-3-methoxybenzoic acid, 3-pentadecyl ester

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

## Physical Properties

Property code	Value	Unit	Source
gf	-709.12	kJ/mol	Joback Method
hf	-1298.03	kJ/mol	Joback Method
hfus	57.50	kJ/mol	Joback Method
hvap	80.44	kJ/mol	Joback Method
log10ws	-8.80		Crippen Method
logp	7.359		Crippen Method
mcvol	329.790	ml/mol	McGowan Method
pc	945.00	kPa	Joback Method
rinpola	2409.00		NIST Webbook
rinpola	2409.00		NIST Webbook
tb	868.32	K	Joback Method
tc	1063.27	K	Joback Method
tf	506.63	K	Joback Method
vc	1.306	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1059.02	J/molxK	868.32	Joback Method
cpg	1076.63	J/molxK	900.81	Joback Method
cpg	1093.03	J/molxK	933.30	Joback Method
cpg	1108.24	J/molxK	965.79	Joback Method
cpg	1122.29	J/molxK	998.28	Joback Method
cpg	1135.19	J/molxK	1030.78	Joback Method
cpg	1146.96	J/molxK	1063.27	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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U338466&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338466&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>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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