

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

<b>Inchi:</b>	InChI=1S/C24H37F3O3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-30-24(28)19-18-20(2
<b>InchiKey:</b>	BEWHNOHENBEDJQ-UHFFFAOYSA-N
<b>Formula:</b>	C24H37F3O3
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)c1cc(F)c(F)c(OC)c1F
<b>Mol. weight [g/mol]:</b>	430.54

## Physical Properties

Property code	Value	Unit	Source
gf	-698.26	kJ/mol	Joback Method
hf	-1313.39	kJ/mol	Joback Method
hfus	63.62	kJ/mol	Joback Method
hvap	83.06	kJ/mol	Joback Method
log10ws	-9.11		Crippen Method
logp	7.751		Crippen Method
mcvol	343.880	ml/mol	McGowan Method
pc	887.35	kPa	Joback Method
rinpol	2756.00		NIST Webbook
rinpol	2756.00		NIST Webbook
tb	891.64	K	Joback Method
tc	1091.87	K	Joback Method
tf	532.90	K	Joback Method
vc	1.367	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1120.06	J/molxK	891.64	Joback Method
cpg	1138.13	J/molxK	925.01	Joback Method
cpg	1154.91	J/molxK	958.38	Joback Method
cpg	1170.42	J/molxK	991.76	Joback Method
cpg	1184.68	J/molxK	1025.13	Joback Method
cpg	1197.71	J/molxK	1058.50	Joback Method
cpg	1209.54	J/molxK	1091.87	Joback Method

# Sources

<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=U338773&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338773&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.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>

# 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

Latest version available from:

<https://www.cheméo.com/cid/72-341-3/3-Methoxy-2-4-5-trifluorobenzoic-acid-hexadecyl-ester.pdf>

Generated by Cheméo on 2024-04-20 10:48:40.02899114 +0000 UTC m=+15899368.949568461.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.