

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

Inchi:	InChI=1S/C15H19F3O3/c1-3-4-5-6-7-8-21-15(19)10-9-11(16)13(18)14(20-2)12(10)17/h9
InchiKey:	ZPOZCTMUMLAWOD-UHFFFAOYSA-N
Formula:	C15H19F3O3
SMILES:	CCCCCCCOC(=O)c1cc(F)c(F)c(OC)c1F
Mol. weight [g/mol]:	304.30

## Physical Properties

Property code	Value	Unit	Source
gf	-774.04	kJ/mol	Joback Method
hf	-1127.63	kJ/mol	Joback Method
hfus	40.31	kJ/mol	Joback Method
hvap	63.02	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	4.240		Crippen Method
mvol	217.070	ml/mol	McGowan Method
pc	1609.00	kPa	Joback Method
rinpol	1847.00		NIST Webbook
rinpol	1847.00		NIST Webbook
tb	685.72	K	Joback Method
tc	865.40	K	Joback Method
tf	431.47	K	Joback Method
vc	0.864	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	596.23	J/molxK	685.72	Joback Method
cpg	610.32	J/molxK	715.67	Joback Method
cpg	623.73	J/molxK	745.61	Joback Method
cpg	636.44	J/molxK	775.56	Joback Method
cpg	648.47	J/molxK	805.50	Joback Method
cpg	659.81	J/molxK	835.45	Joback Method
cpg	670.45	J/molxK	865.40	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U338764&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338764&amp;Units=SI</a>
<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>

# 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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