

# 3-Methoxybenzoic pentafluoropropionic anhydride

<b>Inchi:</b>	InChI=1S/C11H7F5O4/c1-19-7-4-2-3-6(5-7)8(17)20-9(18)10(12,13)11(14,15)16/h2-5H,1H
<b>InchiKey:</b>	NLXSQUPXWAOWQM-UHFFFAOYSA-N
<b>Formula:</b>	C11H7F5O4
<b>SMILES:</b>	COc1cccc(C(=O)OC(=O)C(F)(F)C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	298.16

## Physical Properties

Property code	Value	Unit	Source
gf	-1291.69	kJ/mol	Joback Method
hf	-1532.96	kJ/mol	Joback Method
hfus	24.04	kJ/mol	Joback Method
hvap	54.65	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	2.576		Crippen Method
mcvol	165.820	ml/mol	McGowan Method
pc	2372.59	kPa	Joback Method
rinpol	1270.00		NIST Webbook
rinpol	1270.00		NIST Webbook
tb	625.21	K	Joback Method
tc	817.70	K	Joback Method
tf	404.78	K	Joback Method
vc	0.659	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	434.49	J/mol×K	625.21	Joback Method
cpg	445.31	J/mol×K	657.29	Joback Method
cpg	455.35	J/mol×K	689.37	Joback Method
cpg	464.64	J/mol×K	721.46	Joback Method
cpg	473.21	J/mol×K	753.54	Joback Method
cpg	481.09	J/mol×K	785.62	Joback Method
cpg	488.33	J/mol×K	817.70	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=U375008&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375008&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>

# 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>rlnpol:</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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