

# 2-Methoxybenzoic trifluoroacetic anhydride

<b>Inchi:</b>	InChI=1S/C10H7F3O4/c1-16-7-5-3-2-4-6(7)8(14)17-9(15)10(11,12)13/h2-5H,1H3
<b>InchiKey:</b>	GTWKXKVCZGUBKG-UHFFFAOYSA-N
<b>Formula:</b>	C10H7F3O4
<b>SMILES:</b>	COc1ccccc1C(=O)OC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	248.16

## Physical Properties

Property code	Value	Unit	Source
gf	-913.33	kJ/mol	Joback Method
hf	-1111.35	kJ/mol	Joback Method
hfus	22.71	kJ/mol	Joback Method
hvap	55.36	kJ/mol	Joback Method
log10ws	-2.69		Crippen Method
logp	1.941		Crippen Method
mvol	148.190	ml/mol	McGowan Method
pc	2811.36	kPa	Joback Method
rinpol	1292.00		NIST Webbook
rinpol	1292.00		NIST Webbook
tb	607.02	K	Joback Method
tc	808.77	K	Joback Method
tf	389.91	K	Joback Method
vc	0.579	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	367.02	J/molxK	607.02	Joback Method
cpg	377.74	J/molxK	640.64	Joback Method
cpg	387.76	J/molxK	674.27	Joback Method
cpg	397.08	J/molxK	707.89	Joback Method
cpg	405.73	J/molxK	741.52	Joback Method
cpg	413.72	J/molxK	775.14	Joback Method
cpg	421.07	J/molxK	808.77	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=U375005&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375005&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>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>rlnol:</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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