

# 4-Hydroxy-2-methoxybenzaldehyde, O-trifluoroacetyl-

<b>Inchi:</b>	InChI=1S/C10H7F3O4/c1-16-8-4-7(3-2-6(8)5-14)17-9(15)10(11,12)13/h2-5H,1H3
<b>InchiKey:</b>	WECPGBCBTPZTGR-UHFFFAOYSA-N
<b>Formula:</b>	C10H7F3O4
<b>SMILES:</b>	COc1cc(OC(=O)C(F)(F)F)ccc1C=O
<b>Mol. weight [g/mol]:</b>	248.16

## Physical Properties

Property code	Value	Unit	Source
gf	-893.56	kJ/mol	Joback Method
hf	-1095.82	kJ/mol	Joback Method
hfus	23.01	kJ/mol	Joback Method
hvap	55.99	kJ/mol	Joback Method
log10ws	-2.81		Crippen Method
logp	1.975		Crippen Method
mvol	148.190	ml/mol	McGowan Method
pc	2799.47	kPa	Joback Method
rinpol	1308.00		NIST Webbook
rinpol	1308.00		NIST Webbook
tb	606.79	K	Joback Method
tc	805.18	K	Joback Method
tf	394.50	K	Joback Method
vc	0.590	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	367.06	J/mol×K	606.79	Joback Method
cpg	377.32	J/mol×K	639.86	Joback Method
cpg	386.94	J/mol×K	672.92	Joback Method
cpg	395.93	J/mol×K	705.99	Joback Method
cpg	404.31	J/mol×K	739.05	Joback Method
cpg	412.08	J/mol×K	772.12	Joback Method
cpg	419.26	J/mol×K	805.18	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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=U374779&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374779&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>

# 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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