

# 2-Hydroxy-4'-trifluoromethyl-4-methoxybenzophe

<b>Inchi:</b>	InChI=1S/C15H11F3O3/c1-21-11-6-7-12(13(19)8-11)14(20)9-2-4-10(5-3-9)15(16,17)18/h
<b>InchiKey:</b>	SSMMHXAIJLDSQ-UHFFFAOYSA-N
<b>Formula:</b>	C15H11F3O3
<b>SMILES:</b>	COc1ccc(C(=O)c2ccc(C(F)(F)F)cc2)c(O)c1
<b>Mol. weight [g/mol]:</b>	296.24
<b>CAS:</b>	7396-90-9

## Physical Properties

Property code	Value	Unit	Source
gf	-689.15	kJ/mol	Joback Method
hf	-922.00	kJ/mol	Joback Method
hfus	32.31	kJ/mol	Joback Method
hvap	73.28	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	3.651		Crippen Method
mcvol	193.310	ml/mol	McGowan Method
pc	2637.96	kPa	Joback Method
tb	757.41	K	Joback Method
tc	986.09	K	Joback Method
tf	524.76	K	Joback Method
vc	0.693	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	590.97	J/molxK	947.97	Joback Method
cpg	539.51	J/molxK	757.41	Joback Method
cpg	551.26	J/molxK	795.52	Joback Method
cpg	562.18	J/molxK	833.64	Joback Method
cpg	572.36	J/molxK	871.75	Joback Method
cpg	581.92	J/molxK	909.86	Joback Method
cpg	599.61	J/molxK	986.09	Joback Method
hsubt	91.00	kJ/mol	323.00	NIST Webbook

# 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=C7396909&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7396909&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>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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>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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