

# 3-Methylcatechol, bis(trifluoroacetate)

<b>Inchi:</b>	InChI=1S/C11H6F6O4/c1-5-3-2-4-6(20-8(18)10(12,13)14)7(5)21-9(19)11(15,16)17/h2-4H
<b>InchiKey:</b>	DHLFFAPMPMJESG-UHFFFAOYSA-N
<b>Formula:</b>	C11H6F6O4
<b>SMILES:</b>	Cc1cccc(OC(=O)C(F)(F)F)c1OC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	316.15
<b>CAS:</b>	25854-50-6

## Physical Properties

Property code	Value	Unit	Source
gf	-1496.13	kJ/mol	Joback Method
hf	-1740.54	kJ/mol	Joback Method
hfus	26.74	kJ/mol	Joback Method
hvap	54.50	kJ/mol	Joback Method
log10ws	-3.90		Crippen Method
logp	2.930		Crippen Method
mcvol	167.590	ml/mol	McGowan Method
pc	2239.76	kPa	Joback Method
rinpol	1065.00		NIST Webbook
rinpol	1065.00		NIST Webbook
tb	629.46	K	Joback Method
tc	815.20	K	Joback Method
tf	417.89	K	Joback Method
vc	0.677	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	441.58	J/molxK	629.46	Joback Method
cpg	451.74	J/molxK	660.42	Joback Method
cpg	461.19	J/molxK	691.37	Joback Method
cpg	469.97	J/molxK	722.33	Joback Method
cpg	478.09	J/molxK	753.28	Joback Method
cpg	485.59	J/molxK	784.24	Joback Method
cpg	492.49	J/molxK	815.20	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C25854506&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C25854506&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.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>

# 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>hvpap:</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>rinppl:</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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