

# 4-(Methylmercapto)phenol, trifluoroacetate

<b>Other names:</b>	4-(methylthio)phenol
<b>Inchi:</b>	InChI=1S/C9H7F3O2S/c1-15-7-4-2-6(3-5-7)14-8(13)9(10,11)12/h2-5H,1H3
<b>InchiKey:</b>	JESYZQRXGKWXAQ-UHFFFAOYSA-N
<b>Formula:</b>	C9H7F3O2S
<b>SMILES:</b>	CSc1ccc(OC(=O)C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	236.21

## Physical Properties

Property code	Value	Unit	Source
gf	-654.71	kJ/mol	Joback Method
hf	-804.04	kJ/mol	Joback Method
hfus	21.46	kJ/mol	Joback Method
hvap	50.79	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	2.876		Crippen Method
mcvol	143.010	ml/mol	McGowan Method
pc	3022.28	kPa	Joback Method
rinpol	1230.00		NIST Webbook
rinpol	1230.00		NIST Webbook
tb	576.63	K	Joback Method
tc	793.57	K	Joback Method
tf	340.88	K	Joback Method
vc	0.552	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.93	J/molxK	576.63	Joback Method
cpg	343.21	J/molxK	612.79	Joback Method
cpg	353.69	J/molxK	648.94	Joback Method
cpg	363.39	J/molxK	685.10	Joback Method
cpg	372.34	J/molxK	721.26	Joback Method
cpg	380.55	J/molxK	757.41	Joback Method
cpg	388.07	J/molxK	793.57	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=U353189&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353189&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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