

# 5-(Methylthio)-Salicylic acid, O,O'-dimethyl-

<b>Inchi:</b>	InChI=1S/C10H12O3S/c1-12-9-5-4-7(14-3)6-8(9)10(11)13-2/h4-6H,1-3H3
<b>InchiKey:</b>	ZKFYLVYMPYJXPS-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O3S
<b>SMILES:</b>	COC(=O)c1cc(SC)ccc1OC
<b>Mol. weight [g/mol]:</b>	212.26

## Physical Properties

Property code	Value	Unit	Source
gf	-179.33	kJ/mol	Joback Method
hf	-371.29	kJ/mol	Joback Method
hfus	23.02	kJ/mol	Joback Method
hvap	59.84	kJ/mol	Joback Method
log10ws	-2.58		Crippen Method
logp	2.204		Crippen Method
mcvol	157.660	ml/mol	McGowan Method
pc	2982.79	kPa	Joback Method
rinsol	1751.00		NIST Webbook
tb	632.33	K	Joback Method
tc	862.46	K	Joback Method
tf	382.71	K	Joback Method
vc	0.584	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.88	J/mol×K	632.33	Joback Method
cpg	385.85	J/mol×K	670.69	Joback Method
cpg	398.05	J/mol×K	709.04	Joback Method
cpg	409.46	J/mol×K	747.40	Joback Method
cpg	420.06	J/mol×K	785.75	Joback Method
cpg	429.81	J/mol×K	824.11	Joback Method
cpg	438.71	J/mol×K	862.46	Joback Method

# Sources

<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>
<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=U374801&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374801&amp;Units=SI</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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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