

# 1,4-Dimethoxy-2-(methylthio)-benzene

<b>Inchi:</b>	InChI=1S/C9H12O2S/c1-10-7-4-5-8(11-2)9(6-7)12-3/h4-6H,1-3H3
<b>InchiKey:</b>	VDHGQPCJOZRMTC-UHFFFAOYSA-N
<b>Formula:</b>	C9H12O2S
<b>SMILES:</b>	COc1ccc(OC)c(SC)c1
<b>Mol. weight [g/mol]:</b>	184.25
<b>CAS:</b>	2570-42-5

## Physical Properties

Property code	Value	Unit	Source
gf	-58.83	kJ/mol	Joback Method
hf	-238.07	kJ/mol	Joback Method
hfus	18.84	kJ/mol	Joback Method
hvap	50.86	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	2.426		Crippen Method
mcvol	142.000	ml/mol	McGowan Method
pc	3093.29	kPa	Joback Method
ripol	2334.00		NIST Webbook
tb	555.58	K	Joback Method
tc	782.79	K	Joback Method
tf	321.51	K	Joback Method
vc	0.521	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.54	J/molxK	555.58	Joback Method
cpg	324.72	J/molxK	593.45	Joback Method
cpg	337.29	J/molxK	631.32	Joback Method
cpg	349.20	J/molxK	669.18	Joback Method
cpg	360.45	J/molxK	707.05	Joback Method
cpg	371.02	J/molxK	744.92	Joback Method
cpg	380.87	J/molxK	782.79	Joback Method

# Sources

<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.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>
<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=C2570425&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2570425&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	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

Latest version available from:

<https://www.cheméo.com/cid/97-121-0/1-4-Dimethoxy-2-methylthio-benzene.pdf>

Generated by Cheméo on 2024-04-27 04:13:47.912572578 +0000 UTC m=+16480476.833149888.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.