

# Ethanethioic acid, S-(2-methoxyphenyl) ester

<b>Other names:</b>	2-Methoxythiophenol, S-acetyl- S-(2-Methoxyphenyl) ethanethioate
<b>Inchi:</b>	InChI=1S/C9H10O2S/c1-7(10)12-9-6-4-3-5-8(9)11-2/h3-6H,1-2H3
<b>InchiKey:</b>	UGYOFXSIYVNMOM-UHFFFAOYSA-N
<b>Formula:</b>	C9H10O2S
<b>SMILES:</b>	COc1ccccc1SC(C)=O
<b>Mol. weight [g/mol]:</b>	182.24
<b>CAS:</b>	109963-06-6

## Physical Properties

Property code	Value	Unit	Source
gf	-73.12	kJ/mol	Joback Method
hf	-206.96	kJ/mol	Joback Method
hfus	19.64	kJ/mol	Joback Method
hvap	54.54	kJ/mol	Joback Method
log10ws	-2.53		Crippen Method
logp	2.334		Crippen Method
mcvol	137.700	ml/mol	McGowan Method
pc	3448.03	kPa	Joback Method
rinpol	1484.20		NIST Webbook
rinpol	1484.20		NIST Webbook
tb	582.05	K	Joback Method
tc	819.33	K	Joback Method
tf	336.69	K	Joback Method
vc	0.509	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.44	J/molxK	582.05	Joback Method
cpg	315.94	J/molxK	621.60	Joback Method
cpg	327.66	J/molxK	661.14	Joback Method
cpg	338.59	J/molxK	700.69	Joback Method
cpg	348.75	J/molxK	740.23	Joback Method

cpg	358.12	J/mol×K	779.78	Joback Method
cpg	366.72	J/mol×K	819.33	Joback Method

## Sources

<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=C109963066&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C109963066&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>

## 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>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>rinpola:</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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