

# Phenethylamine, 2,5-dimethoxy-4-methylthio, sulfoxide, N-acetyl

<b>Inchi:</b>	InChI=1S/C13H19NO4S/c1-9(15)14-6-5-10-7-12(18-3)13(19(4)16)8-11(10)17-2/h7-8H,5-
<b>InchiKey:</b>	MMLNTVMTTLMSNV-UHFFFAOYSA-N
<b>Formula:</b>	C13H19NO4S
<b>SMILES:</b>	COc1cc(S(C)=O)c(OC)cc1CCNC(C)=O
<b>Mol. weight [g/mol]:</b>	285.36

## Physical Properties

Property code	Value	Unit	Source
gf	-325.14	kJ/mol	Joback Method
hf	-638.82	kJ/mol	Joback Method
hfus	39.13	kJ/mol	Joback Method
hvap	79.52	kJ/mol	Joback Method
log10ws	-1.81		Crippen Method
logp	1.120		Crippen Method
mcvol	215.780	ml/mol	McGowan Method
pc	2374.90	kPa	Joback Method
rinpola	2460.00		NIST Webbook
rinpola	2460.00		NIST Webbook
tb	745.62	K	Joback Method
tc	953.86	K	Joback Method
tf	483.78	K	Joback Method
vc	0.823	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	593.75	J/molxK	745.62	Joback Method
cpg	607.77	J/molxK	780.33	Joback Method
cpg	620.82	J/molxK	815.03	Joback Method
cpg	632.87	J/molxK	849.74	Joback Method
cpg	643.91	J/molxK	884.45	Joback Method
cpg	653.92	J/molxK	919.15	Joback Method
cpg	662.89	J/molxK	953.86	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R418561&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R418561&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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