

# 4-Methylthioamphetamine-M (ring-HO-) diacetylated

<b>Inchi:</b>	InChI=1S/C14H18O4S/c1-9(17-10(2)15)7-12-5-6-14(19-4)13(8-12)18-11(3)16/h5-6,8-9H
<b>InchiKey:</b>	NLMKGRSEWHJTNY-UHFFFAOYSA-N
<b>Formula:</b>	C14H18O4S
<b>SMILES:</b>	<chem>CSc1ccc(CC(C)OC(C)=O)cc1OC(C)=O</chem>
<b>Mol. weight [g/mol]:</b>	282.36

## Physical Properties

Property code	Value	Unit	Source
gf	-277.01	kJ/mol	Joback Method
hf	-571.71	kJ/mol	Joback Method
hfus	31.46	kJ/mol	Joback Method
hvap	75.10	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	2.828		Crippen Method
mvol	215.590	ml/mol	McGowan Method
pc	2175.46	kPa	Joback Method
rinpol	2240.00		NIST Webbook
tb	777.28	K	Joback Method
tc	1001.54	K	Joback Method
tf	462.72	K	Joback Method
vc	0.807	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	593.80	J/mol×K	777.28	Joback Method
cpg	607.56	J/mol×K	814.66	Joback Method
cpg	620.20	J/mol×K	852.03	Joback Method
cpg	631.72	J/mol×K	889.41	Joback Method
cpg	642.11	J/mol×K	926.79	Joback Method
cpg	651.37	J/mol×K	964.17	Joback Method
cpg	659.47	J/mol×K	1001.54	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R413264&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R413264&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>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>mccvol:</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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