

# Methylone M (demethylenyl, 3-O-methyl), 2Ac

<b>Inchi:</b>	InChI=1S/C15H19NO5/c1-9(16(4)10(2)17)15(19)12-6-7-13(21-11(3)18)14(8-12)20-5/h6-9
<b>InchiKey:</b>	IDTQPTVNIJKOCS-UHFFFAOYSA-N
<b>Formula:</b>	C15H19NO5
<b>SMILES:</b>	COc1cc(C(=O)C(C)N(C)C(C)=O)ccc1OC(C)=O
<b>Mol. weight [g/mol]:</b>	293.32

## Physical Properties

Property code	Value	Unit	Source
gf	-319.85	kJ/mol	Joback Method
hf	-679.27	kJ/mol	Joback Method
hfus	34.54	kJ/mol	Joback Method
hvap	79.30	kJ/mol	Joback Method
log10ws	-2.70		Crippen Method
logp	1.670		Crippen Method
mcvol	224.880	ml/mol	McGowan Method
pc	2073.65	kPa	Joback Method
rinpol	2045.00		NIST Webbook
rinpol	2045.00		NIST Webbook
tb	797.69	K	Joback Method
tc	1009.68	K	Joback Method
tf	521.99	K	Joback Method
vc	0.834	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	648.88	J/mol×K	797.69	Joback Method
cpg	662.21	J/mol×K	833.02	Joback Method
cpg	674.48	J/mol×K	868.35	Joback Method
cpg	685.73	J/mol×K	903.69	Joback Method
cpg	695.95	J/mol×K	939.02	Joback Method
cpg	705.15	J/mol×K	974.35	Joback Method
cpg	713.36	J/mol×K	1009.68	Joback Method

# Sources

<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=R615871&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R615871&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

# 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>r in pol:</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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