

# Mephedrone M (Ar-CH<sub>2</sub>OH, nor), 2Ac

**Inchi:** InChI=1S/C14H17NO4/c1-9(15-10(2)16)14(18)13-6-4-12(5-7-13)8-19-11(3)17/h4-7,9H,8  
**InchiKey:** PACJGKJARDXWGO-UHFFFAOYSA-N  
**Formula:** C14H17NO4  
**SMILES:** CC(=O)NC(C)C(=O)c1ccc(COC(C)=O)cc1  
**Mol. weight [g/mol]:** 263.29

## Physical Properties

Property code	Value	Unit	Source
gf	-235.03	kJ/mol	Joback Method
hf	-529.00	kJ/mol	Joback Method
hfus	33.23	kJ/mol	Joback Method
hvap	78.39	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	1.457		Crippen Method
mcvol	204.920	ml/mol	McGowan Method
pc	2372.59	kPa	Joback Method
rinpol	2310.00		NIST Webbook
rinpol	2310.00		NIST Webbook
tb	785.14	K	Joback Method
tc	1002.42	K	Joback Method
tf	496.16	K	Joback Method
vc	0.776	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	581.78	J/mol×K	785.14	Joback Method
cpg	594.48	J/mol×K	821.35	Joback Method
cpg	606.19	J/mol×K	857.57	Joback Method
cpg	616.92	J/mol×K	893.78	Joback Method
cpg	626.70	J/mol×K	929.99	Joback Method
cpg	635.56	J/mol×K	966.21	Joback Method
cpg	643.53	J/mol×K	1002.42	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R615831&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R615831&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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