

# Mephedrone M (Ar-carboxy, dihydro), 3Ac

**Inchi:** InChI=1S/C17H21NO6/c1-9(18(5)11(3)20)16(24-12(4)21)14-7-6-13(17(22)23)8-15(14)10  
**InchiKey:** OWLXLIYMSCQNHM-UHFFFAOYSA-N  
**Formula:** C17H21NO6  
**SMILES:** CC(=O)OC(c1ccc(C(=O)O)cc1C(C)=O)C(C)N(C)C(C)=O  
**Mol. weight [g/mol]:** 335.35

## Physical Properties

Property code	Value	Unit	Source
gf	-466.19	kJ/mol	Joback Method
hf	-858.42	kJ/mol	Joback Method
hfus	40.70	kJ/mol	Joback Method
hvap	104.38	kJ/mol	Joback Method
log10ws	-3.28		Crippen Method
logp	2.058		Crippen Method
mvol	254.630	ml/mol	McGowan Method
pc	2051.17	kPa	Joback Method
rinpol	2235.00		NIST Webbook
rinpol	2235.00		NIST Webbook
tb	966.64	K	Joback Method
tc	1187.35	K	Joback Method
tf	618.05	K	Joback Method
vc	0.947	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	795.06	J/molxK	966.64	Joback Method
cpg	805.00	J/molxK	1003.43	Joback Method
cpg	813.87	J/molxK	1040.21	Joback Method
cpg	821.71	J/molxK	1077.00	Joback Method
cpg	828.55	J/molxK	1113.78	Joback Method
cpg	834.44	J/molxK	1150.57	Joback Method
cpg	839.41	J/molxK	1187.35	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=R615811&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R615811&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>hvp:</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>rinp:</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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