

# Alphacetylmethadol

<b>Other names:</b>	Acetylmethadol
<b>Inchi:</b>	InChI=1S/C23H31NO2/c1-6-22(26-19(3)25)23(17-18(2)24(4)5,20-13-9-7-10-14-20)21-15
<b>InchiKey:</b>	XBMIVRRWGCYBTQ-UHFFFAOYSA-N
<b>Formula:</b>	C23H31NO2
<b>SMILES:</b>	CCC(OC(C)=O)C(CC(C)N(C)C)(c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	353.50
<b>CAS:</b>	17199-58-5

## Physical Properties

Property code	Value	Unit	Source
gf	242.42	kJ/mol	Joback Method
hf	-241.57	kJ/mol	Joback Method
hfus	34.76	kJ/mol	Joback Method
hvap	80.47	kJ/mol	Joback Method
log10ws	-5.09		Crippen Method
logp	4.655		Crippen Method
mcvol	304.830	ml/mol	McGowan Method
pc	1387.11	kPa	Joback Method
rinpol	2187.00		NIST Webbook
rinpol	2187.00		NIST Webbook
tb	863.62	K	Joback Method
tc	1088.26	K	Joback Method
tf	478.86	K	Joback Method
vc	1.127	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	958.11	J/molxK	863.62	Joback Method
cpg	975.97	J/molxK	901.06	Joback Method
cpg	992.48	J/molxK	938.50	Joback Method
cpg	1007.75	J/molxK	975.94	Joback Method
cpg	1021.89	J/molxK	1013.38	Joback Method
cpg	1035.01	J/molxK	1050.82	Joback Method

## Sources

<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=C17199585&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C17199585&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>

## 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>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

Latest version available from:

<https://www.chemeo.com/cid/99-128-1/Alphacetylmethadol.pdf>

Generated by Cheméo on 2024-05-01 05:14:50.214230895 +0000 UTC m=+16829739.134808207.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.