

# Acetoxyacetamide, N-heptyl-N-octyl-

**Inchi:** InChI=1S/C19H37NO3/c1-4-6-8-10-12-14-16-20(15-13-11-9-7-5-2)19(22)17-23-18(3)21/  
**InchiKey:** CYBVBXYVJIGAAC-UHFFFAOYSA-N  
**Formula:** C19H37NO3  
**SMILES:** CCCCCCCN(CCCCCC)C(=O)COC(C)=O  
**Mol. weight [g/mol]:** 327.50

## Physical Properties

Property code	Value	Unit	Source
gf	-142.96	kJ/mol	Joback Method
hf	-725.34	kJ/mol	Joback Method
hfus	52.37	kJ/mol	Joback Method
hvap	75.83	kJ/mol	Joback Method
log10ws	-4.98		Crippen Method
logp	4.709		Crippen Method
mvol	297.560	ml/mol	McGowan Method
pc	1160.87	kPa	Joback Method
rinpol	2286.00		NIST Webbook
rinpol	2286.00		NIST Webbook
tb	776.72	K	Joback Method
tc	956.01	K	Joback Method
tf	458.45	K	Joback Method
vc	1.147	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	920.24	J/molxK	776.72	Joback Method
cpg	938.43	J/molxK	806.60	Joback Method
cpg	955.66	J/molxK	836.48	Joback Method
cpg	971.95	J/molxK	866.36	Joback Method
cpg	987.33	J/molxK	896.24	Joback Method
cpg	1001.84	J/molxK	926.13	Joback Method
cpg	1015.50	J/molxK	956.01	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308297&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308297&amp;Units=SI</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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