

# Acetoxyacetamide, N-decyl-N-methyl-

<b>Inchi:</b>	InChI=1S/C15H29NO3/c1-4-5-6-7-8-9-10-11-12-16(3)15(18)13-19-14(2)17/h4-13H2,1-3H
<b>InchiKey:</b>	SNYDHKLVMLVQV-UHFFFAOYSA-N
<b>Formula:</b>	C15H29NO3
<b>SMILES:</b>	CCCCCCCCCN(C)C(=O)COC(C)=O
<b>Mol. weight [g/mol]:</b>	271.40

## Physical Properties

Property code	Value	Unit	Source
gf	-176.64	kJ/mol	Joback Method
hf	-642.78	kJ/mol	Joback Method
hfus	42.01	kJ/mol	Joback Method
hvap	66.93	kJ/mol	Joback Method
log10ws	-3.31		Crippen Method
logp	3.149		Crippen Method
mvol	241.200	ml/mol	McGowan Method
pc	1536.66	kPa	Joback Method
rinpol	2015.00		NIST Webbook
rinpol	2015.00		NIST Webbook
tb	685.20	K	Joback Method
tc	859.96	K	Joback Method
tf	413.37	K	Joback Method
vc	0.923	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	688.33	J/mol×K	685.20	Joback Method
cpg	704.89	J/mol×K	714.33	Joback Method
cpg	720.65	J/mol×K	743.45	Joback Method
cpg	735.63	J/mol×K	772.58	Joback Method
cpg	749.83	J/mol×K	801.70	Joback Method
cpg	763.30	J/mol×K	830.83	Joback Method
cpg	776.03	J/mol×K	859.96	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.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>
<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=U308294&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308294&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>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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