

# Acetamide, N-(3-nitrophenyl)-2-acetoxy-

<b>Inchi:</b>	InChI=1S/C10H10N2O5/c1-7(13)17-6-10(14)11-8-3-2-4-9(5-8)12(15)16/h2-5H,6H2,1H3,
<b>InchiKey:</b>	FXPSKSZDZMYNHZ-UHFFFAOYSA-N
<b>Formula:</b>	C10H10N2O5
<b>SMILES:</b>	CC(=O)OCC(=O)Nc1cccc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	238.20

## Physical Properties

Property code	Value	Unit	Source
gf	-101.80	kJ/mol	Joback Method
hf	-339.34	kJ/mol	Joback Method
hfus	36.15	kJ/mol	Joback Method
hvap	79.72	kJ/mol	Joback Method
log10ws	-2.02		Crippen Method
logp	1.096		Crippen Method
mcvol	164.410	ml/mol	McGowan Method
pc	3348.98	kPa	Joback Method
rinqol	2056.00		NIST Webbook
tb	792.03	K	Joback Method
tc	1031.99	K	Joback Method
tf	559.76	K	Joback Method
vc	0.634	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	451.45	J/molxK	792.03	Joback Method
cpg	461.45	J/molxK	832.02	Joback Method
cpg	470.50	J/molxK	872.02	Joback Method
cpg	478.62	J/molxK	912.01	Joback Method
cpg	485.83	J/molxK	952.00	Joback Method
cpg	492.17	J/molxK	992.00	Joback Method
cpg	497.65	J/molxK	1031.99	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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=U307096&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307096&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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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