

# Acetamide, N-(2,5-dihydro-5-oxo-2-furanyl)-

<b>Other names:</b>	Acetamide, N-(2,5-dihydro-5-oxo-2-furyl)- 2(5H)-Furanone, 5-acetamido- 4-Acetamido-4-hydroxy-2-butenoic acid-«gamma»-lactone 5-Acetamido-2(5)-furanone Butenolide Crotonic acid, 4-acetamido-4-hydroxy-, gamma-lactone
<b>Inchi:</b>	InChI=1S/C6H7NO3/c1-4(8)7-5-2-3-6(9)10-5/h2-3,5H,1H3,(H,7,8)
<b>InchiKey:</b>	HUSDLVGPEKRWAL-UHFFFAOYSA-N
<b>Formula:</b>	C6H7NO3
<b>SMILES:</b>	CC(=O)NC1C=CC(=O)O1
<b>Mol. weight [g/mol]:</b>	141.12
<b>CAS:</b>	16275-44-8

## Physical Properties

Property code	Value	Unit	Source
gf	-182.09	kJ/mol	Joback Method
hf	-377.72	kJ/mol	Joback Method
hfus	20.64	kJ/mol	Joback Method
hvap	51.44	kJ/mol	Joback Method
log10ws	-0.52		Crippen Method
logp	-0.438		Crippen Method
mcvol	99.230	ml/mol	McGowan Method
pc	4590.15	kPa	Joback Method
tb	549.93	K	Joback Method
tc	779.84	K	Joback Method
tf	366.42	K	Joback Method
vc	0.367	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	234.16	J/mol×K	549.93	Joback Method
cpg	245.47	J/mol×K	588.25	Joback Method
cpg	256.14	J/mol×K	626.57	Joback Method

cpg	266.16	J/mol×K	664.88	Joback Method
cpg	275.53	J/mol×K	703.20	Joback Method
cpg	284.24	J/mol×K	741.52	Joback Method
cpg	292.29	J/mol×K	779.84	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=C16275448&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16275448&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>

## 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>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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