

# 2(3H)-Furanone, 5-acetyldihydro-

<b>Other names:</b>	5-Acetyldihydro-2(3H)-furanone 4-Hydroxy-5-ketohexanoic acid lactone Solerone Hexanoic acid, 4-hydroxy-5-oxo-, lactone 5-acetyldihydrofuran-2(3H)-one
<b>Inchi:</b>	InChI=1S/C6H8O3/c1-4(7)5-2-3-6(8)9-5/h5H,2-3H2,1H3
<b>InchiKey:</b>	AHLDCEZSQNGEFT-UHFFFAOYSA-N
<b>Formula:</b>	C6H8O3
<b>SMILES:</b>	CC(=O)C1CCC(=O)O1
<b>Mol. weight [g/mol]:</b>	128.13
<b>CAS:</b>	29393-32-6

## Physical Properties

Property code	Value	Unit	Source
gf	-301.44	kJ/mol	Joback Method
hf	-488.97	kJ/mol	Joback Method
hfus	14.32	kJ/mol	Joback Method
hvap	44.71	kJ/mol	Joback Method
log10ws	-0.48		Crippen Method
logp	0.281		Crippen Method
mcvol	93.550	ml/mol	McGowan Method
pc	4299.92	kPa	Joback Method
ripol	1299.00		NIST Webbook
ripol	1300.00		NIST Webbook
ripol	1300.00		NIST Webbook
ripol	2026.00		NIST Webbook
ripol	2026.00		NIST Webbook
ripol	2013.00		NIST Webbook
ripol	2096.00		NIST Webbook
ripol	2098.00		NIST Webbook
ripol	2013.00		NIST Webbook
tb	500.60	K	Joback Method
tc	728.46	K	Joback Method
tf	313.00	K	Joback Method
vc	0.346	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.14	J/molxK	500.60	Joback Method
cpg	221.35	J/molxK	538.58	Joback Method
cpg	232.98	J/molxK	576.55	Joback Method
cpg	244.01	J/molxK	614.53	Joback Method
cpg	254.44	J/molxK	652.50	Joback Method
cpg	264.24	J/molxK	690.48	Joback Method
cpg	273.42	J/molxK	728.46	Joback Method

## Sources

<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=C29393326&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C29393326&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>ripol:</b>	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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