

# 4-Methyl-5H-furan-2-one

<b>Other names:</b>	4-Methyl-2(5H)-furanone
<b>Inchi:</b>	InChI=1S/C5H6O2/c1-4-2-5(6)7-3-4/h2H,3H2,1H3
<b>InchiKey:</b>	ZZEYQBNQZKUWKY-UHFFFAOYSA-N
<b>Formula:</b>	C5H6O2
<b>SMILES:</b>	CC1=CC(=O)OC1
<b>Mol. weight [g/mol]:</b>	98.10
<b>CAS:</b>	6124-79-4

## Physical Properties

Property code	Value	Unit	Source
gf	-152.90	kJ/mol	Joback Method
hf	-289.10	kJ/mol	Joback Method
hfus	9.89	kJ/mol	Joback Method
hvap	37.00	kJ/mol	Joback Method
log10ws	-0.53		Crippen Method
logp	0.489		Crippen Method
mcvol	73.590	ml/mol	McGowan Method
pc	4835.95	kPa	Joback Method
ripol	1912.00		NIST Webbook
ripol	1912.00		NIST Webbook
ripol	1909.00		NIST Webbook
tb	432.66	K	Joback Method
tc	656.90	K	Joback Method
tf	269.32	K	Joback Method
vc	0.272	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	139.67	J/molxK	432.66	Joback Method
cpg	149.00	J/molxK	470.03	Joback Method
cpg	157.97	J/molxK	507.41	Joback Method
cpg	166.57	J/molxK	544.78	Joback Method
cpg	174.79	J/molxK	582.15	Joback Method

cpg	182.62	J/mol×K	619.53	Joback Method
cpg	190.05	J/mol×K	656.90	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=C6124794&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6124794&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>hvac:</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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