

# dihydro-4-methyl-5-pentylfuran-2(3H)-one

<b>Other names:</b>	4-Methyl-5-pentyl-dihydrofuran-2(3H)-one
<b>Inchi:</b>	InChI=1S/C10H18O2/c1-3-4-5-6-9-8(2)7-10(11)12-9/h8-9H,3-7H2,1-2H3
<b>InchiKey:</b>	LOQFOBUZYRBURV-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O2
<b>SMILES:</b>	CCCCC1OC(=O)CC1C
<b>Mol. weight [g/mol]:</b>	170.25
<b>CAS:</b>	33673-62-0

## Physical Properties

Property code	Value	Unit	Source
gf	-146.55	kJ/mol	Joback Method
hf	-479.29	kJ/mol	Joback Method
hfus	24.15	kJ/mol	Joback Method
hvap	46.56	kJ/mol	Joback Method
log10ws	-2.64		Crippen Method
logp	2.518		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	2487.55	kPa	Joback Method
rinpol	1501.80		NIST Webbook
rinpol	1501.80		NIST Webbook
ripol	2070.00		NIST Webbook
ripol	2070.00		NIST Webbook
tb	533.58	K	Joback Method
tc	737.90	K	Joback Method
tf	303.91	K	Joback Method
vc	0.564	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.11	J/mol×K	533.58	Joback Method
cpg	388.73	J/mol×K	567.63	Joback Method
cpg	405.55	J/mol×K	601.69	Joback Method
cpg	421.59	J/mol×K	635.74	Joback Method

cpg	436.85	J/mol×K	669.79	Joback Method
cpg	451.32	J/mol×K	703.84	Joback Method
cpg	465.00	J/mol×K	737.90	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=C33673620&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33673620&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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