

# 6-heptyl-5,6-dihydro-2H-pyran-2-one

<b>Inchi:</b>	InChI=1S/C12H20O2/c1-2-3-4-5-6-8-11-9-7-10-12(13)14-11/h7,10-11H,2-6,8-9H2,1H3
<b>InchiKey:</b>	XPTXKXKPWKNYKB-UHFFFAOYSA-N
<b>Formula:</b>	C12H20O2
<b>SMILES:</b>	CCCCCCCC1CC=CC(=O)O1
<b>Mol. weight [g/mol]:</b>	196.29
<b>CAS:</b>	16400-72-9

## Physical Properties

Property code	Value	Unit	Source
gf	-104.14	kJ/mol	Joback Method
hf	-448.61	kJ/mol	Joback Method
hfus	27.38	kJ/mol	Joback Method
hvap	51.78	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	3.219		Crippen Method
mcvol	172.220	ml/mol	McGowan Method
pc	2261.11	kPa	Joback Method
rinpol	1703.80		NIST Webbook
rinpol	1703.80		NIST Webbook
tb	587.44	K	Joback Method
tc	794.47	K	Joback Method
tf	327.93	K	Joback Method
vc	0.654	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	451.21	J/mol×K	587.44	Joback Method
cpg	469.61	J/mol×K	621.95	Joback Method
cpg	487.07	J/mol×K	656.45	Joback Method
cpg	503.60	J/mol×K	690.96	Joback Method
cpg	519.19	J/mol×K	725.46	Joback Method
cpg	533.86	J/mol×K	759.97	Joback Method
cpg	547.61	J/mol×K	794.47	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=C16400729&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16400729&amp;Units=SI</a>
<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>

# 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>rinpola:</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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