

# 2H-Pyran-2-one, tetrahydro-6-octyl-

<b>Other names:</b>	6-Octyltetrahydro-2H-pyran-2-one «delta»-Tridecalactone «delta»-Tridecanolide tetrahydro-6-octyl-2H-pyran-2-one
<b>Inchi:</b>	InChI=1S/C13H24O2/c1-2-3-4-5-6-7-9-12-10-8-11-13(14)15-12/h12H,2-11H2,1H3
<b>InchiKey:</b>	RZZLMGATMUAJPX-UHFFFAOYSA-N
<b>Formula:</b>	C13H24O2
<b>SMILES:</b>	CCCCCCCC1CCCC(=O)O1
<b>Mol. weight [g/mol]:</b>	212.33
<b>CAS:</b>	7370-92-5

## Physical Properties

Property code	Value	Unit	Source
gf	-125.68	kJ/mol	Joback Method
hf	-527.03	kJ/mol	Joback Method
hfus	28.75	kJ/mol	Joback Method
hvap	53.72	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	3.833		Crippen Method
mcvol	190.610	ml/mol	McGowan Method
pc	2001.91	kPa	Joback Method
ripol	2565.00		NIST Webbook
ripol	2565.00		NIST Webbook
tb	611.16	K	Joback Method
tc	813.34	K	Joback Method
tf	338.44	K	Joback Method
vc	0.725	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	524.25	J/molxK	611.16	Joback Method
cpg	544.15	J/molxK	644.86	Joback Method
cpg	563.04	J/molxK	678.55	Joback Method

cpg	580.92	J/mol×K	712.25	Joback Method
cpg	597.81	J/mol×K	745.94	Joback Method
cpg	613.70	J/mol×K	779.64	Joback Method
cpg	628.61	J/mol×K	813.34	Joback Method

## Sources

<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>
<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=C7370925&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7370925&amp;Units=SI</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>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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