

# 2,3-dihydro-5-hydroxy-6,8,8-trimethyl-2-phenyl-4H-1-benzopyran-4,7(8H)-dione, isomer 1, enol form (champanone C)

**SMILES:** CC1=C(O)C2=C(CC(c3ccccc3)CC2=O)C(C)(C)C1=O

**Mol. weight [g/mol]:** 296.36

## Physical Properties

Property code	Value	Unit	Source
gf	-71.48	kJ/mol	Joback Method
hf	-420.71	kJ/mol	Joback Method
hfus	24.57	kJ/mol	Joback Method
hvap	87.93	kJ/mol	Joback Method
log10ws	-4.48		Crippen Method
logp	3.871		Crippen Method
mcvol	233.500	ml/mol	McGowan Method
pc	2200.01	kPa	Joback Method
rinpol	2407.00		NIST Webbook
tb	937.66	K	Joback Method
tc	1185.29	K	Joback Method
tf	624.87	K	Joback Method
vc	0.876	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	771.02	J/molxK	937.66	Joback Method
cpg	788.45	J/molxK	978.93	Joback Method
cpg	805.31	J/molxK	1020.20	Joback Method
cpg	821.73	J/molxK	1061.48	Joback Method
cpg	837.85	J/molxK	1102.75	Joback Method
cpg	853.79	J/molxK	1144.02	Joback Method
cpg	869.69	J/molxK	1185.29	Joback Method

# Sources

<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=R435031&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R435031&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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