

# Humulene-6,7-oxide

<b>Inchi:</b>	InChI=1S/C15H22O/c1-11-6-5-8-15(3,4)9-7-12(2)14-13(10-11)16-14/h5,7-8,10,13-14H,6
<b>InchiKey:</b>	CURDSHVMYFYFNIX-GQRUBBQQSA-N
<b>Formula:</b>	C15H22O
<b>SMILES:</b>	CC1=CC2OC2C(C)=CCC(C)(C)C=CC1
<b>Mol. weight [g/mol]:</b>	218.33

## Physical Properties

Property code	Value	Unit	Source
gf	95.62	kJ/mol	Joback Method
hf	-230.99	kJ/mol	Joback Method
hfus	23.92	kJ/mol	Joback Method
hvap	55.09	kJ/mol	Joback Method
log10ws	-4.52		Crippen Method
logp	4.023		Crippen Method
mcvol	193.460	ml/mol	McGowan Method
pc	2129.52	kPa	Joback Method
rinpol	1598.00		NIST Webbook
rinpol	1598.00		NIST Webbook
ripol	2041.00		NIST Webbook
tb	611.66	K	Joback Method
tc	846.02	K	Joback Method
tf	347.12	K	Joback Method
vc	0.718	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	519.59	J/molxK	611.66	Joback Method
cpg	541.74	J/molxK	650.72	Joback Method
cpg	562.54	J/molxK	689.78	Joback Method
cpg	582.13	J/molxK	728.84	Joback Method
cpg	600.66	J/molxK	767.90	Joback Method
cpg	618.27	J/molxK	806.96	Joback Method
cpg	635.11	J/molxK	846.02	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=R439964&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R439964&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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