

# trans-Umbellulol

**Inchi:** InChI=1S/C10H16O/c1-6(2)10-5-8(10)7(3)4-9(10)11/h4,6,8-9,11H,5H2,1-3H3/t8?,9?,10-/  
**InchiKey:** OJTQGSSVGDYALN-UDNWOFFPSA-N  
**Formula:** C10H16O  
**SMILES:** CC1=CC(O)C2(C(C)C)CC12  
**Mol. weight [g/mol]:** 152.23

## Physical Properties

Property code	Value	Unit	Source
gf	22.69	kJ/mol	Joback Method
hf	-220.43	kJ/mol	Joback Method
hfus	14.10	kJ/mol	Joback Method
hvap	53.46	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	1.969		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
pc	3138.51	kPa	Joback Method
rinpol	1035.00		NIST Webbook
rinpol	1035.00		NIST Webbook
tb	533.13	K	Joback Method
tc	726.81	K	Joback Method
tf	317.10	K	Joback Method
vc	0.505	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.61	J/mol×K	533.13	Joback Method
cpg	349.43	J/mol×K	565.41	Joback Method
cpg	362.34	J/mol×K	597.69	Joback Method
cpg	374.46	J/mol×K	629.97	Joback Method
cpg	385.91	J/mol×K	662.25	Joback Method
cpg	396.80	J/mol×K	694.53	Joback Method
cpg	407.24	J/mol×K	726.81	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=R325296&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R325296&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>hvp:</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>rinp:</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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