

# 1-Oxo-4«alpha»,5«alpha»-epoxyeudesm-2-en-11«

<b>Inchi:</b>	InChI=1S/C15H18O4/c1-8-9-4-6-13(2)10(16)5-7-14(3)15(13,19-14)11(9)18-12(8)17/h5,7
<b>InchiKey:</b>	MKYVUZFLXXNOMQ-SZLRVMPYSA-N
<b>Formula:</b>	C15H18O4
<b>SMILES:</b>	CC1C(=O)OC2C1CCC1(C)C(=O)C=CC3(C)OC231
<b>Mol. weight [g/mol]:</b>	262.30

## Physical Properties

Property code	Value	Unit	Source
gf	-125.13	kJ/mol	Joback Method
hf	-550.63	kJ/mol	Joback Method
hfus	22.39	kJ/mol	Joback Method
hvap	62.72	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	1.631		Crippen Method
mcvol	189.350	ml/mol	McGowan Method
pc	2681.86	kPa	Joback Method
tb	758.18	K	Joback Method
tc	1025.38	K	Joback Method
tf	577.09	K	Joback Method
vc	0.722	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.62	J/molxK	758.18	Joback Method
cpg	646.49	J/molxK	802.71	Joback Method
cpg	668.82	J/molxK	847.25	Joback Method
cpg	692.21	J/molxK	891.78	Joback Method
cpg	717.23	J/molxK	936.32	Joback Method
cpg	744.47	J/molxK	980.85	Joback Method
cpg	774.51	J/molxK	1025.38	Joback Method

# Sources

<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>
<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=R617426&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R617426&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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