

# ent-Eudesm-4-ene-6-one

**Inchi:** InChI=1S/C15H24O/c1-10(2)12-7-9-15(4)8-5-6-11(3)13(15)14(12)16/h10,12H,5-9H2,1-4H  
**InchiKey:** LRSNSCWFOBGPBP-CVRLYYRSA-N  
**Formula:** C15H24O  
**SMILES:** CC1=C2C(=O)C(C(C)C)CCC2(C)CCC1  
**Mol. weight [g/mol]:** 220.35

## Physical Properties

Property code	Value	Unit	Source
gf	28.70	kJ/mol	Joback Method
hf	-324.87	kJ/mol	Joback Method
hfus	12.61	kJ/mol	Joback Method
hvap	53.82	kJ/mol	Joback Method
log10ws	-4.30		Crippen Method
logp	4.128		Crippen Method
mvol	197.760	ml/mol	McGowan Method
pc	2058.62	kPa	Joback Method
rinpol	1582.00		NIST Webbook
rinpol	1582.00		NIST Webbook
tb	649.90	K	Joback Method
tc	884.41	K	Joback Method
tf	383.53	K	Joback Method
vc	0.743	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	561.93	J/mol×K	649.90	Joback Method
cpg	584.17	J/mol×K	688.99	Joback Method
cpg	605.19	J/mol×K	728.07	Joback Method
cpg	625.15	J/mol×K	767.16	Joback Method
cpg	644.17	J/mol×K	806.24	Joback Method
cpg	662.39	J/mol×K	845.33	Joback Method
cpg	679.96	J/mol×K	884.41	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=R413388&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R413388&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>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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