

# 2«alpha»-acetyloxy-trans-decalin-6-one

<b>Inchi:</b>	InChI=1S/C12H18O3/c1-8(13)15-12-5-3-9-6-11(14)4-2-10(9)7-12/h9-10,12H,2-7H2,1H3/
<b>InchiKey:</b>	DAQCRVQCGFADLY-CBINBANVSA-N
<b>Formula:</b>	C12H18O3
<b>SMILES:</b>	CC(=O)OC1CCC2CC(=O)CCC2C1
<b>Mol. weight [g/mol]:</b>	210.27

## Physical Properties

Property code	Value	Unit	Source
gf	-240.96	kJ/mol	Joback Method
hf	-572.89	kJ/mol	Joback Method
hfus	18.07	kJ/mol	Joback Method
hvap	55.91	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	2.087		Crippen Method
mcvol	167.230	ml/mol	McGowan Method
pc	2597.78	kPa	Joback Method
rinpol	1617.00		NIST Webbook
rinpol	1617.00		NIST Webbook
ripol	2501.00		NIST Webbook
tb	643.96	K	Joback Method
tc	877.91	K	Joback Method
tf	382.94	K	Joback Method
vc	0.620	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	481.19	J/molxK	643.96	Joback Method
cpg	501.67	J/molxK	682.95	Joback Method
cpg	520.80	J/molxK	721.94	Joback Method
cpg	538.58	J/molxK	760.93	Joback Method
cpg	555.02	J/molxK	799.93	Joback Method
cpg	570.12	J/molxK	838.92	Joback Method
cpg	583.88	J/molxK	877.91	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R136031&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R136031&amp;Units=SI</a>
<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>

# 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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