

# 3-Acetoxy-7,8-epoxylanostan-11-ol

**Inchi:** InChI=1S/C32H54O4/c1-19(2)11-10-12-20(3)22-13-16-31(9)30(22,8)18-23(34)27-29(7)1  
**InchiKey:** FRTKIPFUELVLHQ-FKTAOPRSA-N  
**Formula:** C32H54O4  
**SMILES:** CC(=O)OC1CCC2(C)C(CC3OC34C2C(O)CC2(C)C(C(C)CCCC(C)C)CCC24C)C1(C)C  
**Mol. weight [g/mol]:** 502.77

## Physical Properties

Property code	Value	Unit	Source
gf	-49.44	kJ/mol	Joback Method
hf	-943.72	kJ/mol	Joback Method
hfus	45.76	kJ/mol	Joback Method
hvap	108.87	kJ/mol	Joback Method
log10ws	-8.18		Crippen Method
logp	7.168		Crippen Method
mvol	426.620	ml/mol	McGowan Method
pc	868.62	kPa	Joback Method
rinpol	459.10		NIST Webbook
rinpol	459.10		NIST Webbook
tb	1145.79	K	Joback Method
tc	1404.00	K	Joback Method
tf	753.15	K	Joback Method
vc	1.625	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1921.41	J/mol×K	1145.79	Joback Method
cpg	2002.73	J/mol×K	1188.83	Joback Method
cpg	2092.74	J/mol×K	1231.86	Joback Method
cpg	2192.44	J/mol×K	1274.90	Joback Method
cpg	2302.78	J/mol×K	1317.93	Joback Method
cpg	2424.74	J/mol×K	1360.97	Joback Method
cpg	2559.30	J/mol×K	1404.00	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=R516620&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R516620&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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