

# 24-Dihydrozymosterol acetate

<b>Inchi:</b>	InChI=1S/C30H50O2/c1-19(2)20(3)8-9-21(4)26-12-13-27-25-11-10-23-18-24(32-22(5)31
<b>InchiKey:</b>	CHMDHOMCAOHVQK-VTEUAPAUSA-N
<b>Formula:</b>	C30H50O2
<b>SMILES:</b>	CC(=O)OC1CCC2(C)C(CCC3C4=CCC(C(C)CCC(C)C(C)C)C4(C)CCC32)C1
<b>Mol. weight [g/mol]:</b>	442.72

## Physical Properties

Property code	Value	Unit	Source
gf	129.20	kJ/mol	Joback Method
hf	-647.00	kJ/mol	Joback Method
hfus	39.16	kJ/mol	Joback Method
hvap	88.60	kJ/mol	Joback Method
log10ws	-8.61		Crippen Method
logp	8.206		Crippen Method
mvol	393.260	ml/mol	McGowan Method
pc	880.00	kPa	Joback Method
rinpol	3207.00		NIST Webbook
tb	999.69	K	Joback Method
tc	1231.31	K	Joback Method
tf	557.54	K	Joback Method
vc	1.488	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1504.06	J/mol×K	999.69	Joback Method
cpg	1537.82	J/mol×K	1038.29	Joback Method
cpg	1572.22	J/mol×K	1076.90	Joback Method
cpg	1607.63	J/mol×K	1115.50	Joback Method
cpg	1644.38	J/mol×K	1154.10	Joback Method
cpg	1682.84	J/mol×K	1192.71	Joback Method
cpg	1723.35	J/mol×K	1231.31	Joback Method

# Sources

<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=R110277&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R110277&amp;Units=SI</a>
<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>

# 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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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