

# 24-Methyl-5-«alpha»-cholesta-8,14-dien-3-«beta»-

<b>Inchi:</b>	InChI=1S/C28H46O/c1-18(2)19(3)7-8-20(4)24-11-12-25-23-10-9-21-17-22(29)13-15-27(2)
<b>InchiKey:</b>	ZWTGNSZOWCZDDE-AUYUSWKRSA-N
<b>Formula:</b>	C28H46O
<b>SMILES:</b>	CC(C)C(C)CCC(C)C1CC=C2C3=C(CCC21C)C1(C)CCC(O)CC1CC3
<b>Mol. weight [g/mol]:</b>	398.66

## Physical Properties

Property code	Value	Unit	Source
gf	235.58	kJ/mol	Joback Method
hf	-437.63	kJ/mol	Joback Method
hfus	33.59	kJ/mol	Joback Method
hvap	93.91	kJ/mol	Joback Method
log10ws	-8.51		Crippen Method
logp	7.699		Crippen Method
mcvol	359.210	ml/mol	McGowan Method
pc	1067.27	kPa	Joback Method
rinpol	3225.00		NIST Webbook
tb	988.28	K	Joback Method
tc	1215.41	K	Joback Method
tf	557.94	K	Joback Method
vc	1.359	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1351.87	J/mol×K	988.28	Joback Method
cpg	1383.59	J/mol×K	1026.14	Joback Method
cpg	1416.32	J/mol×K	1063.99	Joback Method
cpg	1450.42	J/mol×K	1101.85	Joback Method
cpg	1486.22	J/mol×K	1139.70	Joback Method
cpg	1524.08	J/mol×K	1177.56	Joback Method
cpg	1564.36	J/mol×K	1215.41	Joback Method

# Sources

<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=R490494&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R490494&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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