

# 24-Ethyl-5-«alpha»-cholest-14-en-3-«beta»-ol

<b>Inchi:</b>	InChI=1S/C29H50O/c1-7-21(19(2)3)9-8-20(4)25-12-13-26-24-11-10-22-18-23(30)14-16-2
<b>InchiKey:</b>	TTYMUMDUAZXSIE-SSBFXSBGSA-N
<b>Formula:</b>	C29H50O
<b>SMILES:</b>	CCC(CCC(C)C1CC=C2C3CCC4CC(O)CCC4(C)C3CCC21C)C(C)C
<b>Mol. weight [g/mol]:</b>	414.71

## Physical Properties

Property code	Value	Unit	Source
gf	217.88	kJ/mol	Joback Method
hf	-533.79	kJ/mol	Joback Method
hfus	37.87	kJ/mol	Joback Method
hvap	93.90	kJ/mol	Joback Method
log10ws	-8.59		Crippen Method
logp	8.025		Crippen Method
mcvol	377.600	ml/mol	McGowan Method
pc	959.10	kPa	Joback Method
rinpol	3305.00		NIST Webbook
tb	992.70	K	Joback Method
tc	1218.50	K	Joback Method
tf	534.93	K	Joback Method
vc	1.427	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1457.53	J/mol×K	992.70	Joback Method
cpg	1490.57	J/mol×K	1030.33	Joback Method
cpg	1524.41	J/mol×K	1067.97	Joback Method
cpg	1559.38	J/mol×K	1105.60	Joback Method
cpg	1595.82	J/mol×K	1143.23	Joback Method
cpg	1634.10	J/mol×K	1180.87	Joback Method
cpg	1674.54	J/mol×K	1218.50	Joback Method

# Sources

<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>
<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=R214552&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R214552&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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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