

# 24-Ethyl-5-«alpha»-cholest-8,14-dien-3-«beta»-ol

<b>Inchi:</b>	InChI=1S/C29H48O/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>	PHLJEYOBUHONQR-PFGIFUPGSA-N
<b>Formula:</b>	C29H48O
<b>SMILES:</b>	CCC(CCC(C)C1CC=C2C3=C(CCC21C)C1(C)CCC(O)CC1CC3)C(C)C
<b>Mol. weight [g/mol]:</b>	412.69

## Physical Properties

Property code	Value	Unit	Source
gf	244.00	kJ/mol	Joback Method
hf	-458.27	kJ/mol	Joback Method
hfus	36.18	kJ/mol	Joback Method
hvap	96.13	kJ/mol	Joback Method
log10ws	-8.93		Crippen Method
logp	8.089		Crippen Method
mcvol	373.300	ml/mol	McGowan Method
pc	1003.35	kPa	Joback Method
rinpol	3315.00		NIST Webbook
rinpol	3315.00		NIST Webbook
tb	1011.16	K	Joback Method
tc	1240.60	K	Joback Method
tf	569.21	K	Joback Method
vc	1.415	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1422.77	J/mol×K	1011.16	Joback Method
cpg	1456.19	J/mol×K	1049.40	Joback Method
cpg	1490.81	J/mol×K	1087.64	Joback Method
cpg	1527.00	J/mol×K	1125.88	Joback Method
cpg	1565.12	J/mol×K	1164.12	Joback Method
cpg	1605.53	J/mol×K	1202.36	Joback Method
cpg	1648.61	J/mol×K	1240.60	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R214656&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R214656&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>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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