

# 24-Ethyl-5-«alpha»-cholest-7,24(Z)-dien-3-«beta»-

<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>	MCWVPSBQQXUCTB-PDBXLZKYSA-N
<b>Formula:</b>	C29H48O
<b>SMILES:</b>	CC=C(CCC(C)C1CCC2C3=CCC4CC(O)CCC4(C)C3CCC21C)C(C)C
<b>Mol. weight [g/mol]:</b>	412.69

## Physical Properties

Property code	Value	Unit	Source
gf	291.99	kJ/mol	Joback Method
hf	-421.08	kJ/mol	Joback Method
hfus	40.29	kJ/mol	Joback Method
hvap	94.33	kJ/mol	Joback Method
log10ws	-8.69		Crippen Method
logp	7.945		Crippen Method
mcvol	373.300	ml/mol	McGowan Method
pc	988.88	kPa	Joback Method
rinpol	3360.00		NIST Webbook
rinpol	3360.00		NIST Webbook
tb	997.18	K	Joback Method
tc	1225.65	K	Joback Method
tf	530.89	K	Joback Method
vc	1.415	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1430.05	J/mol×K	997.18	Joback Method
cpg	1463.55	J/mol×K	1035.26	Joback Method
cpg	1498.11	J/mol×K	1073.34	Joback Method
cpg	1534.10	J/mol×K	1111.42	Joback Method
cpg	1571.91	J/mol×K	1149.49	Joback Method
cpg	1611.89	J/mol×K	1187.57	Joback Method
cpg	1654.44	J/mol×K	1225.65	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.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=R214616&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R214616&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>hvap:</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>rinpola:</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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