

# 3-chloro-24-ethyl-«delta»5-Cholestadiene

<b>Inchi:</b>	InChI=1S/C29H49Cl/c1-7-21(19(2)3)9-8-20(4)25-12-13-26-24-11-10-22-18-23(30)14-16-
<b>InchiKey:</b>	IMWQDSKRNHVSQV-LERVBXDGSA-N
<b>Formula:</b>	C29H49Cl
<b>SMILES:</b>	CCC(CCC(C)C1CCC2C3CC=C4CC(Cl)CCC4(C)C3CCC12C)C(C)C
<b>Mol. weight [g/mol]:</b>	433.15

## Physical Properties

Property code	Value	Unit	Source
gf	342.77	kJ/mol	Joback Method
hf	-397.30	kJ/mol	Joback Method
hfus	37.98	kJ/mol	Joback Method
hvap	81.61	kJ/mol	Joback Method
log10ws	-9.48		Crippen Method
logp	9.271		Crippen Method
mcvol	383.970	ml/mol	McGowan Method
pc	886.83	kPa	Joback Method
rinsol	3300.00		NIST Webbook
tb	937.95	K	Joback Method
tc	1165.45	K	Joback Method
tf	504.03	K	Joback Method
vc	1.458	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1400.37	J/mol×K	937.95	Joback Method
cpg	1432.75	J/mol×K	975.87	Joback Method
cpg	1465.43	J/mol×K	1013.78	Joback Method
cpg	1498.79	J/mol×K	1051.70	Joback Method
cpg	1533.17	J/mol×K	1089.62	Joback Method
cpg	1568.92	J/mol×K	1127.54	Joback Method
cpg	1606.39	J/mol×K	1165.45	Joback Method

# Sources

<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>
<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=R162991&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R162991&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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