

# 3-chloro-24-methyl-«delta»5-Cholestene

<b>Inchi:</b>	InChI=1S/C28H47Cl/c1-18(2)19(3)7-8-20(4)24-11-12-25-23-10-9-21-17-22(29)13-15-27(
<b>InchiKey:</b>	BROSQZDTRZJAHJ-QTGZJRLASA-N
<b>Formula:</b>	C28H47Cl
<b>SMILES:</b>	CC(C)C(C)CCC(C)C1CCC2C3CC=C4CC(Cl)CCC4(C)C3CCC12C
<b>Mol. weight [g/mol]:</b>	419.13

## Physical Properties

Property code	Value	Unit	Source
gf	334.35	kJ/mol	Joback Method
hf	-376.66	kJ/mol	Joback Method
hfus	35.39	kJ/mol	Joback Method
hvap	79.38	kJ/mol	Joback Method
log10ws	-9.07		Crippen Method
logp	8.881		Crippen Method
mcvol	369.880	ml/mol	McGowan Method
pc	939.79	kPa	Joback Method
rinpol	3170.00		NIST Webbook
tb	915.07	K	Joback Method
tc	1143.42	K	Joback Method
tf	492.76	K	Joback Method
vc	1.401	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1331.26	J/mol×K	915.07	Joback Method
cpg	1362.80	J/mol×K	953.13	Joback Method
cpg	1394.50	J/mol×K	991.19	Joback Method
cpg	1426.72	J/mol×K	1029.24	Joback Method
cpg	1459.81	J/mol×K	1067.30	Joback Method
cpg	1494.12	J/mol×K	1105.36	Joback Method
cpg	1530.00	J/mol×K	1143.42	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=R163003&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R163003&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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