

# 4-«alpha»-Methyl-5-«alpha»-cholestane

<b>Other names:</b>	4«alpha»-methylcholestane
<b>Inchi:</b>	InChI=1S/C28H50/c1-19(2)9-7-10-20(3)24-14-15-25-22-12-13-23-21(4)11-8-17-27(23,5)2
<b>InchiKey:</b>	AJHKOHJONNVXCK-ZDUMRXQFSA-N
<b>Formula:</b>	C28H50
<b>SMILES:</b>	CC(C)CCCC(C)C1CCC2C3CCC4C(C)CCCC4(C)C3CCC12C
<b>Mol. weight [g/mol]:</b>	386.70

## Physical Properties

Property code	Value	Unit	Source
gf	320.68	kJ/mol	Joback Method
hf	-422.29	kJ/mol	Joback Method
hfus	34.96	kJ/mol	Joback Method
hvap	74.12	kJ/mol	Joback Method
log10ws	-8.71		Crippen Method
logp	8.744		Crippen Method
mvol	361.940	ml/mol	McGowan Method
pc	925.55	kPa	Joback Method
rinpol	2912.00		NIST Webbook
rinpol	2912.00		NIST Webbook
tb	869.27	K	Joback Method
tc	1089.19	K	Joback Method
tf	460.32	K	Joback Method
vc	1.371	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1320.91	J/mol×K	869.27	Joback Method
cpg	1352.91	J/mol×K	905.92	Joback Method
cpg	1384.54	J/mol×K	942.58	Joback Method
cpg	1416.11	J/mol×K	979.23	Joback Method
cpg	1447.93	J/mol×K	1015.88	Joback Method
cpg	1480.30	J/mol×K	1052.53	Joback Method
cpg	1513.54	J/mol×K	1089.19	Joback Method

# Sources

<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=R215055&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R215055&amp;Units=SI</a>
<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>

# 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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