

# Ergostanol

<b>Other names:</b>	Ergostan-3-ol, (3«beta»,5«alpha»)-5«alpha»-Ergostan-3«beta»-ol Epiergostanol (3«beta»,5«alpha»)-Ergostan-3-ol 24S-Methyl-5-«alpha»-cholestan-3-«beta»-ol
<b>Inchi:</b>	InChI=1S/C28H50O/c1-18(2)19(3)7-8-20(4)24-11-12-25-23-10-9-21-17-22(29)13-15-27(2)
<b>InchiKey:</b>	ARYTXMNEANMLMU-KVOTZNM TSA-N
<b>Formula:</b>	C28H50O
<b>SMILES:</b>	CC(C)C(C)CCC(C)C1CCC2C3CCC4CC(O)CCC4(C)C3CCC12C
<b>Mol. weight [g/mol]:</b>	402.70
<b>CAS:</b>	6538-02-9

## Physical Properties

Property code	Value	Unit	Source
gf	181.42	kJ/mol	Joback Method
hf	-579.80	kJ/mol	Joback Method
hfus	35.52	kJ/mol	Joback Method
hvap	90.41	kJ/mol	Joback Method
log10ws	-8.08		Crippen Method
logp	7.715		Crippen Method
mcvol	367.810	ml/mol	McGowan Method
pc	984.55	kPa	Joback Method
rinpol	3210.00		NIST Webbook
rinpol	3210.00		NIST Webbook
tb	961.01	K	Joback Method
tc	1182.70	K	Joback Method
tf	506.14	K	Joback Method
vc	1.385	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1419.59	J/mol×K	961.01	Joback Method
cpg	1451.53	J/mol×K	997.96	Joback Method

cpg	1483.87	J/mol×K	1034.91	Joback Method
cpg	1516.92	J/mol×K	1071.86	Joback Method
cpg	1551.02	J/mol×K	1108.80	Joback Method
cpg	1586.47	J/mol×K	1145.75	Joback Method
cpg	1623.61	J/mol×K	1182.70	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=C6538029&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6538029&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>

## 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>rinpolar:</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

Latest version available from:

<https://www.chemeo.com/cid/54-338-7/Ergostanol.pdf>

Generated by Cheméo on 2024-04-18 14:54:56.956094764 +0000 UTC m=+15741345.876672076.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.