Campesterol

Other names:	Ergost-5-en-3-ol, (3«beta»,24R)- Ergost-5-en-3«beta»-ol, (24R)- (24R)-5-Ergosten-3«beta»-ol Campesterin 24«alpha»-Methylcholesterol 24«alpha»-Methyl-5-cholesten-3«beta»-ol (24R)-Methylcholest-5-en-3«beta»-ol «DELTA»5-24-Isoergosten-3«beta»-ol Ergost-5-en-3-ol-, (24R, 3«beta»)- NSC 224330 (24R)-ergost-5-en-3«beta»-ol
Inchi:	InChI=1S/C28H48O/c1-18(2)19(3)7-8-20(4)24-11-12-25-23-10-9-21-17-22(29)13-15-27(2
InchiKey:	SGNBVLSWZMBQTH-JJZZAQJISA-N
Formula:	C28H48O
SMILES:	CC(C)C(C)CCC(C)C1CCC2C3CC=C4CC(O)CCC4(C)C3CCC12C
Mol. weight [g/mol]:	400.68
CAS:	474-62-4

Physical Properties

Property code	Value	Unit	Source
gf	209.46	kJ/mol	Joback Method
hf	-513.15	kJ/mol	Joback Method
hfus	35.28	kJ/mol	Joback Method
hvap	91.67	kJ/mol	Joback Method
log10ws	-8.18		Crippen Method
logp	7.635		Crippen Method
mcvol	363.510	ml/mol	McGowan Method
pc	1018.78	kPa	Joback Method
rinpol	3138.00		NIST Webbook
rinpol	3165.00		NIST Webbook
rinpol	3110.00		NIST Webbook
rinpol	3116.00		NIST Webbook
rinpol	3131.00		NIST Webbook
rinpol	3147.00		NIST Webbook
rinpol	3105.00		NIST Webbook
rinpol	3099.00		NIST Webbook
rinpol	3110.00		NIST Webbook

rinpol	3114.00		NIST Webbook
rinpol	3150.00		NIST Webbook
rinpol	3146.00		NIST Webbook
rinpol	3116.00		NIST Webbook
rinpol	3117.00		NIST Webbook
rinpol	3135.00		NIST Webbook
rinpol	3103.00		NIST Webbook
rinpol	3103.00		NIST Webbook
rinpol	3112.00		NIST Webbook
rinpol	3165.00		NIST Webbook
rinpol	3131.00		NIST Webbook
rinpol	3131.00		NIST Webbook
tb	969.82	K	Joback Method
tc	1193.49	K	Joback Method
tf	523.66	K	Joback Method
vc	1.371	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1386.76	J/mol×K	969.82	Joback Method
cpg	1418.35	J/mol×K	1007.10	Joback Method
cpg	1450.56	J/mol×K	1044.38	Joback Method
cpg	1483.71	J/mol×K	1081.65	Joback Method
cpg	1518.15	J/mol×K	1118.93	Joback Method
cpg	1554.19	J/mol×K	1156.21	Joback Method
cpg	1592.18	J/mol×K	1193.49	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C474624&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume