

Lanosterol

Other names:	Lanosta-8,24-dien-3-ol, (3«beta»)- Lanosta-8,24-dien-3«beta»-ol Botalan base 138 Cholesta-8,24-dien-3-ol, 4,4,14-trimethyl-, (3«beta»,5«alpha»)- Lanosta-8,24-dienol Lanosterin Lanster (3«beta»)-Lanosta-8,24-dien-3-ol NSC 60677
Inchi:	InChI=1S/C30H50O/c1-20(2)10-9-11-21(3)22-14-18-30(8)24-12-13-25-27(4,5)26(31)16-1
InchiKey:	CAHGCLMLTWQZNJ-HGYRDELPSA-N
Formula:	C30H50O
SMILES:	<chem>CC(C)=CCCC(C)C1CCC2(C)C3=C(CCC12C)C1(C)CCC(O)C(C)(C)C1CC3</chem>
Mol. weight [g/mol]:	426.72
CAS:	79-63-0

Physical Properties

Property code	Value	Unit	Source
gf	282.24	kJ/mol	Joback Method
hf	-417.43	kJ/mol	Joback Method
hfus	33.42	kJ/mol	Joback Method
hvap	95.30	kJ/mol	Joback Method
log10ws	-9.35		Crippen Method
logp	8.479		Crippen Method
mcvol	387.390	ml/mol	McGowan Method
pc	971.09	kPa	Joback Method
rinpola	3300.00		NIST Webbook
rinpola	3300.00		NIST Webbook
tb	1025.96	K	Joback Method
tc	1260.70	K	Joback Method
tf	617.48	K	Joback Method
vc	1.472	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1525.32	J/mol×K	1025.96	Joback Method
cpg	1573.57	J/mol×K	1065.08	Joback Method
cpg	1625.74	J/mol×K	1104.21	Joback Method
cpg	1682.45	J/mol×K	1143.33	Joback Method
cpg	1744.32	J/mol×K	1182.45	Joback Method
cpg	1811.96	J/mol×K	1221.57	Joback Method
cpg	1885.98	J/mol×K	1260.70	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C79630&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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