

9,19-Cyclolanost-24-en-3-ol, (3«beta»)-

Other names:	9,19-Cyclo-9«beta»-lanost-24-en-3«beta»-ol Cycloartenol Handianol (2aR,3R,5aS,5bS,9S,11aR)-2a,5a,8,8-Tetramethyl-3-((R)-6-methylhept-5-en-2-yl)hexadec-2-ene
Inchi:	InChI=1S/C30H50O/c1-20(2)9-8-10-21(3)22-13-15-28(7)24-12-11-23-26(4,5)25(31)14-16
InchiKey:	ONQRKEUAIJMULO-BSLPMHFZSA-N
Formula:	C30H50O
SMILES:	<chem>CC(C)=CCCC(C)C1CCC2(C)C3CCC4C(C)(C)C(O)CCC45CC35CCC12C</chem>
Mol. weight [g/mol]:	426.72
CAS:	469-38-5

Physical Properties

Property code	Value	Unit	Source
gf	343.29	kJ/mol	Joback Method
hf	-372.25	kJ/mol	Joback Method
hfus	30.08	kJ/mol	Joback Method
hvap	91.79	kJ/mol	Joback Method
log10ws	-8.91		Crippen Method
logp	8.169		Crippen Method
mcvol	380.830	ml/mol	McGowan Method
pc	1025.31	kPa	Joback Method
rinpol	3465.60		NIST Webbook
rinpol	3465.60		NIST Webbook
tb	1010.61	K	Joback Method
tc	1244.98	K	Joback Method
tf	636.32	K	Joback Method
vc	1.456	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1536.63	J/mol×K	1010.61	Joback Method
cpg	1590.88	J/mol×K	1049.67	Joback Method
cpg	1650.50	J/mol×K	1088.73	Joback Method

cpg	1716.28	J/mol×K	1127.79	Joback Method
cpg	1788.99	J/mol×K	1166.85	Joback Method
cpg	1869.41	J/mol×K	1205.91	Joback Method
cpg	1958.34	J/mol×K	1244.98	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C469385&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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