

9,19-Cyclolanostan-3-ol, 24-methylene-, (3«beta»)-

Other names:	9,19-Cyclo-9«beta»-lanostan-3«beta»-ol, 24-methylene-24-Methylenecycloartanol
Inchi:	InChI=1S/C31H52O/c1-20(2)21(3)9-10-22(4)23-13-15-29(8)25-12-11-24-27(5,6)26(32)14
InchiKey:	BDHQMRXFDYJGII-UHFFFAOYSA-N
Formula:	C31H52O
SMILES:	<chem>C=C(CCC(C)C1CCC2(C)C3CCC4C(C)(C)C(O)CCC45CC35CCC12C)C(C)C</chem>
Mol. weight [g/mol]:	440.74
CAS:	1449-09-8

Physical Properties

Property code	Value	Unit	Source
gf	356.89	kJ/mol	Joback Method
hf	-389.96	kJ/mol	Joback Method
hfus	27.67	kJ/mol	Joback Method
hvap	93.00	kJ/mol	Joback Method
log10ws	-9.08		Crippen Method
logp	8.415		Crippen Method
mvol	394.920	ml/mol	McGowan Method
pc	963.87	kPa	Joback Method
rinpol	3108.00		NIST Webbook
rinpol	3108.00		NIST Webbook
tb	1025.57	K	Joback Method
tc	1260.48	K	Joback Method
tf	635.91	K	Joback Method
vc	1.508	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1611.29	J/mol×K	1025.57	Joback Method
cpg	1667.91	J/mol×K	1064.72	Joback Method
cpg	1730.05	J/mol×K	1103.87	Joback Method
cpg	1798.51	J/mol×K	1143.02	Joback Method
cpg	1874.05	J/mol×K	1182.17	Joback Method

cpg	1957.46	J/mol×K	1221.33	Joback Method
cpg	2049.52	J/mol×K	1260.48	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1449098&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
rinpolar:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/73-592-4/9-19-Cyclolanostan-3-ol-24-methylene-3-beta.pdf>

Generated by Cheméo on 2024-04-29 16:50:55.370734629 +0000 UTC m=+16698704.291311949.

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