4,14,24-trimethylcholestane

Inchi: InChI=1S/C30H54/c1-20(2)21(3)11-12-23(5)25-15-18-30(8)27-14-13-24-22(4)10-9-17-28
InchiKey: SSBKVVQTFNVACL-ZANXMFDVSA-N
Formula: C30H54
SMILES: CC(C)C(C)CCC(C)C1CCC2(C)C3CCC4C(C)CCCC4(C)C3CCC12C
Mol. weight [g/mol]: 414.75

Physical Properties

Property code	Value	Unit	Source
gf	329.59	kJ/mol	Joback Method
hf	-453.61	kJ/mol	Joback Method
hfus	30.32	kJ/mol	Joback Method
hvap	77.03	kJ/mol	Joback Method
log10ws	-9.30		Crippen Method
logp	9.380		Crippen Method
mcvol	390.120	ml/mol	McGowan Method
pc	851.97	kPa	Joback Method
rinpol	3144.00		NIST Webbook
tb	914.83	K	Joback Method
tc	1139.80	K	Joback Method
tf	491.76	K	Joback Method
vc	1.476	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1459.95	J/mol×K	914.83	Joback Method
cpg	1496.93	J/mol×K	952.33	Joback Method
cpg	1534.70	J/mol×K	989.82	Joback Method
cpg	1573.69	J/mol×K	1027.32	Joback Method
cpg	1614.34	J/mol×K	1064.81	Joback Method
cpg	1657.08	J/mol×K	1102.31	Joback Method
cpg	1702.34	J/mol×K	1139.80	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=R406003&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