24-Methyl-5-«alpha»-cholest-8-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: RFSQQROZMSPZKI-LHAOKBKSSA-N
Formula: C28H48O
SMILES: CC(C)C(C)CCC(C)C1CCC2C3=C(CCC21C)C1(C)CCC(O)CC1CC3
Mol. weight [g/mol]: 400.68

Physical Properties

Property code	Value	Unit	Source
gf	207.54	kJ/mol	Joback Method
hf	-504.28	kJ/mol	Joback Method
hfus	33.82	kJ/mol	Joback Method
hvap	92.64	kJ/mol	Joback Method
log10ws	-8.42		Crippen Method
logp	7.779		Crippen Method
mcvol	363.510	ml/mol	McGowan Method
pc	1030.59	kPa	Joback Method
rinpol	3260.00		NIST Webbook
tb	979.47	K	Joback Method
tc	1204.63	K	Joback Method
tf	540.42	K	Joback Method
vc	1.373	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1385.21	J/mol×K	979.47	Joback Method
cpg	1417.14	J/mol×K	1017.00	Joback Method
cpg	1449.85	J/mol×K	1054.52	Joback Method
cpg	1483.68	J/mol×K	1092.05	Joback Method
cpg	1518.96	J/mol×K	1129.58	Joback Method
cpg	1556.03	J/mol×K	1167.11	Joback Method
cpg	1595.24	J/mol×K	1204.63	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R214770&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