

24-Ethyl-5-«alpha»-cholest-7,24-dien-3-«beta»-ol

Inchi:	InChI=1S/C29H48O/c1-7-21(19(2)3)9-8-20(4)25-12-13-26-24-11-10-22-18-23(30)14-16-2
InchiKey:	STLJXSQSUAPXFX-PVBKQQCTSA-N
Formula:	C29H48O
SMILES:	CCC(CCC(C)C1CCC2C3=CCC4CC(O)CCC4(C)C3CCC21C)=C(C)C
Mol. weight [g/mol]:	412.69

Physical Properties

Property code	Value	Unit	Source
gf	285.88	kJ/mol	Joback Method
hf	-425.59	kJ/mol	Joback Method
hfus	42.50	kJ/mol	Joback Method
hvap	94.79	kJ/mol	Joback Method
log10ws	-8.93		Crippen Method
logp	8.089		Crippen Method
mcvol	373.300	ml/mol	McGowan Method
pc	987.02	kPa	Joback Method
rinpol	3375.00		NIST Webbook
rinpol	3375.00		NIST Webbook
tb	997.50	K	Joback Method
tc	1225.83	K	Joback Method
tf	531.93	K	Joback Method
vc	1.421	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1429.51	J/mol×K	997.50	Joback Method
cpg	1463.11	J/mol×K	1035.55	Joback Method
cpg	1497.79	J/mol×K	1073.61	Joback Method
cpg	1533.93	J/mol×K	1111.66	Joback Method
cpg	1571.91	J/mol×K	1149.72	Joback Method
cpg	1612.10	J/mol×K	1187.77	Joback Method
cpg	1654.87	J/mol×K	1225.83	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=R214601&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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