

20«beta»,21-Dihydroxypregn-4-en-3-one, 20,21-acetonide

Inchi:	InChI=1S/C24H36O3/c1-22(2)26-14-21(27-22)20-8-7-18-17-6-5-15-13-16(25)9-11-23(15)
InchiKey:	LIVZAOOCWISZFK-LGYJOKLQSA-N
Formula:	C24H36O3
SMILES:	CC1(C)OCC(C2CCC3C4CCC5=CC(=O)CCC5(C)C4CCC23C)O1
Mol. weight [g/mol]:	372.54

Physical Properties

Property code	Value	Unit	Source
gf	56.15	kJ/mol	Joback Method
hf	-588.50	kJ/mol	Joback Method
hfus	34.51	kJ/mol	Joback Method
hvap	79.63	kJ/mol	Joback Method
log10ws	-5.92		Crippen Method
logp	5.286		Crippen Method
mvol	303.730	ml/mol	McGowan Method
pc	1453.46	kPa	Joback Method
rinpol	2890.00		NIST Webbook
rinpol	2890.00		NIST Webbook
tb	924.68	K	Joback Method
tc	1185.57	K	Joback Method
tf	618.92	K	Joback Method
vc	1.135	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1152.02	J/molxK	924.68	Joback Method
cpg	1187.52	J/molxK	968.16	Joback Method
cpg	1224.55	J/molxK	1011.64	Joback Method
cpg	1263.72	J/molxK	1055.13	Joback Method
cpg	1305.62	J/molxK	1098.61	Joback Method
cpg	1350.85	J/molxK	1142.09	Joback Method
cpg	1400.03	J/molxK	1185.57	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R525109&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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
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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