

3Beta-hydroxy-5beta-pregnan-20-one

Inchi:	InChI=1S/C21H34O2/c1-13(22)17-6-7-18-16-5-4-14-12-15(23)8-10-20(14,2)19(16)9-11-2
InchiKey:	AURFZBICLPNKBZ-YJQDOJAJSA-N
Formula:	C21H34O2
SMILES:	CC(=O)C1CCC2C3CCC4CC(O)CCC4(C)C3CCC12C
Mol. weight [g/mol]:	318.49
CAS:	128-21-2

Physical Properties

Property code	Value	Unit	Source
gf	0.88	kJ/mol	Joback Method
hf	-532.06	kJ/mol	Joback Method
hfus	29.56	kJ/mol	Joback Method
hvap	82.74	kJ/mol	Joback Method
log10ws	-5.16		Crippen Method
logp	4.595		Crippen Method
mcvol	270.750	ml/mol	McGowan Method
pc	1631.17	kPa	Joback Method
tb	856.04	K	Joback Method
tc	1080.43	K	Joback Method
tf	522.18	K	Joback Method
vc	1.016	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	981.31	J/molxK	856.04	Joback Method
cpg	1006.66	J/molxK	893.44	Joback Method
cpg	1031.94	J/molxK	930.84	Joback Method
cpg	1057.47	J/molxK	968.24	Joback Method
cpg	1083.54	J/molxK	1005.63	Joback Method
cpg	1110.47	J/molxK	1043.03	Joback Method
cpg	1138.56	J/molxK	1080.43	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C128212&Units=SI

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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