

Pregn-4-en-3-one, 20-hydroxy-, (20r)-

Other names:	Pregn-4-en-3-one, 20«beta»-hydroxy-Progesterol-20«beta» 20«beta»-Dihydroprogesterone 20«beta»-Hydroxydihydroprogesterone 20«beta»-Hydroxyprogesterone 20«beta»-Progerol 20-«beta»-Hydroxypregn-4-en-3-one 4-Pregnen-20«beta»-ol-3-one 20-Hydroxypregn-4-en-3-one, (20«beta»)-(20R)-20-hydroxypregn-4-en-3-one
Inchi:	InChI=1S/C21H32O2/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:	RWBRUCCWZPSBFC-WWRIRWJESA-N
Formula:	C21H32O2
SMILES:	C[C@@H](O)C1CCC2C3CCC4=CC(=O)CCC4(C)C3CCC21C
Mol. weight [g/mol]:	316.48

Physical Properties

Property code	Value	Unit	Source
hfus	22.64	kJ/mol	Joback Method
log10ws	-4.53		Cheméo Relay (1.0)
logp	4.515		Crippen Method
mcvol	266.450	ml/mol	McGowan Method
tf	461.44	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	964.98	J/mol×K	883.03	Joback Method
cpg	990.52	J/mol×K	921.99	Joback Method
cpg	1016.25	J/mol×K	960.95	Joback Method
cpg	1042.50	J/mol×K	999.91	Joback Method
cpg	1069.57	J/mol×K	1038.86	Joback Method
cpg	1097.78	J/mol×K	1077.82	Joback Method
cpg	1127.47	J/mol×K	1116.78	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C145153&Units=SI

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point

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