Progesterone

Other names:

17«alpha»-Progesterone
17Â«alphaÂ»-Progesterone
4-Pregnen-3,20-dione
4-Pregnene-3,20-dione
Agolutin
Bio-luton
Colprosterone
Corlutin
Corlutina
Corluvite
Corporin
Corpus luteum hormone
Crinone
Cyclogest
Estima
Flavolutan
Fologenon
Gesterol
Gesterol 100
Gesterol 50
Gestiron
Gestone
Gestormone
Gestron
Glanducorpin
Gynlutin
Gynolutone
Hormoflaveine
Hormoluton
Lingusorbs
Lipo-lutin
Lucorteum
Lucorteum sol
Lugesteron
Luteal hormone
Luteinique
Luteocrin normale
Luteodyn
Luteogan
Luteohormone

Luteol
Luteopur
Luteosan
Luteostab
Luteovis
Luteum
Lutex
Lutidon
Lutin
Lutociclina
Lutocuclin M
Lutocyclin
Lutocyclin M
Lutocylin
Lutoform
Lutogyl
Lutren
Lutromone
Membrettes
Methylpregnone
NSC-9704
Nalutron
Percutacrine
Percutacrine luteinique
Piaponon
Pregn-4-en-3,20-dione
Pregn-4-ene-3,20-dione
Pregn-4-ene-3,20-dione, 17«alpha»-hydroxy-6«alpha»-methyl-
Pregn-4-ene-3,20-dione, 17Â«alphaÂ»-hydroxy-6Â«alphaÂ»-methyl-
Pregnene, 3,20-dione-delta^4-
Pregnene-3,20-dione
Pregnenedione
Primolut
Progeffik
Progekan
Progestasert
Progesterol
Progesteronum
Progestin
Progestogel
Progestol
Progeston
Progestone

	Progestosol
	Progestron
	Progestronol
	Prolets
	Prolidon
	Prolutin
	Proluton
	Prolutone
	Protormone
	Syngesterone
	Synovex S
	Utrogest
	Utrogestan
	Vitarrine
	synGestrets
	synTolutan
	«beta»-Progesterone
	«delta»(Sup4)-pregnene-3,20-dione
	«delta»-Pregnene-3,20-dione
	«delta»4-Pregnene-3,20-dione
	Â«betaÂ»-Progesterone
	Â«deltaÂ»(Sup4)-pregnene-3,20-dione
	Â«deltaÂ»-Pregnene-3,20-dione
	Â«deltaÂ»4-Pregnene-3,20-dione
Inchi:	InChI=1S/C21H30O2/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:	RJKFOVLPORLFTN-UHFFFAOYSA-N
Formula:	C21H30O2
SMILES:	CC(=O)C1CCC2C3CCC4=CC(=O)CCC4(C)C3CCC12C
Mol. weight [g/mol]:	314.46
CAS:	57-83-0

Physical Properties

Property code	Value	Unit	Source
chs	-12000.00 ± 20.00	kJ/mol	NIST Webbook
gf	50.86	kJ/mol	Joback Method
hf	-430.54	kJ/mol	Joback Method
hfus	23.67	kJ/mol	Joback Method
hvap	71.88	kJ/mol	Joback Method
log10ws	-4.42		Estimated Solubility Method

log10ws	-4.17		Aqueous Solubility Prediction Method
logp	4.724		Crippen Method
mcvol	262.150	ml/mol	McGowan Method
pc	1671.43	kPa	Joback Method
rinpol	2793.00		NIST Webbook
rinpol	2793.00		NIST Webbook
tb	845.16	K	Joback Method
tc	1096.23	K	Joback Method
tf	398.40	K	Aqueous Solubility Prediction Method
tf	403.00 ± 1.00	K	NIST Webbook
vc	0.993	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	912.67	J/mol×K	845.16	Joback Method
cpg	939.46	J/mol×K	887.01	Joback Method
cpg	966.14	J/mol×K	928.85	Joback Method
cpg	993.11	J/mol×K	970.70	Joback Method
cpg	1020.75	J/mol×K	1012.54	Joback Method
cpg	1049.46	J/mol×K	1054.39	Joback Method
cpg	1079.61	J/mol×K	1096.23	Joback Method
hfust	26.99	kJ/mol	404.00	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C57830&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

Legend

chs:	Standard solid enthalpy of combustion
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
hfust:	Enthalpy of fusion at a given temperature
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

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