Prasterone

Other names:	17-Chetovis
	17-Hormoforin
	3-«beta»-Hydroxy-5-androsten-17-one
	3-Â«betaÂ»-Hydroxy-5-androsten-17-one
	5,6-Dehydroisoandrostorone
	5,6-Didehydroisoandrosterone
	5-Androsten-3-«beta»-ol-17-one
	5-Androsten-3-Â«betaÂ»-ol-17-one
	5-Androsten-3B-ol-17-one
	5-Androstene-3«beta»-ol-17-one
	5-Androstene-3Â«betaÂ»-ol-17-one
	5-Dehydroepiandrosterone
	Androst-5-en-17-one, 3-hydroxy-, (3«beta»)-
	Androst-5-en-17-one, 3-hydroxy-, (3Â«betaÂ»)-
	Androst-5-en-17-one, 3«beta»-hydroxy-
	Androst-5-en-17-one, 3Â«betaÂ»-hydroxy-
	Androstenolone
	Astenile
	DHA
	DHEA
	Deandros
	Dehydroepiandrosterone
	Dehydroisoandrosterone
	Diandron
	Diandrone
	Epiandrosterone, 5-dehydro-
	GL 701
	NSC 9896
	Psicosterone
	Siscelar plus
	trans-Dehydroandrosterone
Inchi:	InChI=1S/C19H28O2/c1-18-9-7-13(20)11-12(18)3-4-14-15-5-6-17(21)19(15,2)10-8-16(14
InchiKey:	FMGSKLZLMKYGDP-GXZVGALWSA-N
Formula:	C19H28O2
SMILES:	CC12CCC3C(CC=C4CC(O)CCC43C)C1CCC2=O
Mol. weight [g/mol]:	288.42
CAS:	53-43-0

Physical Properties

Property code	Value	Unit	Source
chs	-11030.00 ± 20.00	kJ/mol	NIST Webbook
gf	26.12	kJ/mol	Joback Method
hf	-428.91	kJ/mol	Joback Method
hfus	20.98	kJ/mol	Joback Method
hvap	77.36	kJ/mol	Joback Method
log10ws	-4.06		Aqueous Solubility Prediction Method
log10ws	-4.12		Estimated Solubility Method
logp	3.879		Crippen Method
mcvol	238.270	ml/mol	McGowan Method
pc	2019.95	kPa	Joback Method
rinpol	2553.00		NIST Webbook
rinpol	2477.00		NIST Webbook
rinpol	2553.00		NIST Webbook
rinpol	2482.00		NIST Webbook
tb	837.71	K	Joback Method
tc	1074.12	K	Joback Method
tf	413.65	K	Aqueous Solubility Prediction Method
vc	0.893	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	839.35	J/mol×K	837.71	Joback Method
cpg	863.19	J/mol×K	877.11	Joback Method
cpg	887.01	J/mol×K	916.51	Joback Method
cpg	911.12	J/mol×K	955.91	Joback Method
cpg	935.84	J/mol×K	995.32	Joback Method
cpg	961.51	J/mol×K	1034.72	Joback Method
cpg	988.44	J/mol×K	1074.12	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C53430&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
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