Oxymetholone

Other names:

Androstan-3-one, 17-hydroxy-2-(hydroxymethylene)-17-methyl-, (5«alpha»,17«beta»)-
5«alpha»,17«beta»-Androstan-3-one, 17-hydroxy-2-(hydroxymethylene)-17-methyl-
Adroidin
Adroyd
Anadrol
Anadroyd
Anapolon
Anasteron
Anasteronal
Anasterone
5-«alpha»-Androstan-3-one, 17-«beta»-hydroxy-2-(hydroxymethylene)-17-methyl-
Androstano(2,3-c)(1,2,5)oxadiazol-17-ol, 17-methyl-, (5-«alpha»,17-«beta»)-
Becorel
CI-406
4,5-Dihydro-2-hydroxymethylene-17-«alpha»-methyltestosterone
Dynasten
HMD
17-Hydroxy-2-(hydroxymethylene)-17-methyl-5-«alpha»-17-«beta»-androst-3-one
17-«beta»-Hydroxy-2-hydroxymethylene-17-«alpha»-methyl-3-androstanone
17-«beta»-Hydroxy-2-(hydroxymethylene)-17-«alpha»-methyl-5-«alpha»-androstan-3-one
17-«beta»-Hydroxy-2-(hydroxymethylene)-17-methyl-5-«alpha»-androstan-3-one
2-Hydroxymethylene-17-«alpha»-methyl-5-«alpha»-androstan-17-«beta»-ol-3-one
2-Hydroxymethylene-17-«alpha»-methyl-dihydrotestosterone
2-Hydroxymethylene-17-«alpha»-methyl-17-«beta»-hydroxy-3-androstanone
Methabol
17-«alpha»-Methyl-2-hydroxymethylene-17-hydroxy-5-«alpha»-androstan-3-one
Nastenon
NSC-26,198
Oximetholonum
Oximetolona
Oxitosona-50
Oxymethalone
Oxymethenolone
Pavisoid
Plenastril
Protanabol
Roboral
Synasteron
Zenalosyn
Oximetholone

	Pardroyd
	17-beta-Hydroxy-2-hydroxymethylene-17-alpha-methyl-3-androstanone
Inchi:	InChI=1S/C21H32O3/c1-19-11-13(12-22)18(23)10-14(19)4-5-15-16(19)6-8-20(2)17(15)7
InchiKey:	ICMWWNHDUZJFDW-RCXBLOTCSA-N
Formula:	C21H32O3
SMILES:	CC12CC(=CO)C(=O)CC1CCC1C2CCC2(C)C1CCC2(C)O
Mol. weight [g/mol]:	332.48
CAS:	434-07-1

Physical Properties

Property code	Value	Unit	Source
gf	-81.93	kJ/mol	Joback Method
hf	-597.80	kJ/mol	Joback Method
hfus	24.51	kJ/mol	Joback Method
hvap	96.86	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.401		Crippen Method
mcvol	272.320	ml/mol	McGowan Method
pc	1882.17	kPa	Joback Method
rinpol	2835.00		NIST Webbook
rinpol	2835.00		NIST Webbook
rinpol	2835.00		NIST Webbook
tb	973.72	K	Joback Method
tc	1205.43	K	Joback Method
tf	639.79	K	Joback Method
vc	1.018	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1054.05	J/mol×K	973.72	Joback Method
cpg	1085.18	J/mol×K	1012.34	Joback Method
cpg	1118.31	J/mol×K	1050.96	Joback Method
cpg	1153.85	J/mol×K	1089.57	Joback Method
cpg	1192.22	J/mol×K	1128.19	Joback Method
cpg	1233.84	J/mol×K	1166.81	Joback Method
cpg	1279.12	J/mol×K	1205.43	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C434071&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
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