Methandriol

Other names:

17«alpha»-Methyl-5-androsten-3«beta»,17«beta»-diol
17-«alpha»-Methyl-5-androstene-3-«beta»,17-«beta»-diol
Androst-5-ene-3,17-diol, 17-methyl-, (3«beta»,17«beta»)-
Androdiol
Androst-5-ene-3«beta»,17«beta»-diol, 17-methyl-
Androteston-M
Androtestone-M
Cenabolic
Crestabolic
Diolandrone
Diolostene
Esjaydiol
Hibol
Madiol
Masdiol
Megabion
Mestenediol
Metandiol
Metandriol
Metendiol
Methanabol
Methandiol
Methandrioldiol
Methandrolan
Methostan
Methylandrostendiol
Methylandrostenediol
Metidione
Metildiolo
Metocryst
MAD
Nabadial
Neostene
Neosteron
Neutrormone
Neutrosteron
Notandron
Notandron-depot
Protandren
Stenediol

	Stenibel
	Stenosterone
	Testodiol
	Troformone
	Androst-5-ene-3,17-diol, 17-methyl-, («beta»,«beta»,«alpha»)-
	Stenibell
	17«alpha»-Methylandrost-5-ene-3«beta»,17«beta»-diol
	17«alpha»-Methylandrost-5-ene-3,17-diol-, (3«beta»,17«beta»)-
	17-Methylandrost-5-ene-3«beta»,17«beta»-diol
	NSC 22366
	17«alpha»-Methyl-«delta»5-androsten-3«beta»,17«beta»-diol
	Androst-5-ene-3,17-diol, 17-methyl-,
	17-Methylandrost-5-ene-3,17-diol
Inchi:	InChI=1S/C20H32O2/c1-18-9-6-14(21)12-13(18)4-5-15-16(18)7-10-19(2)17(15)8-11-20(1
InchiKey:	WRWBCPJQPDHXTJ-OBMPVAGPSA-N
Formula:	C20H32O2
SMILES:	CC12CCC(O)CC1=CCC1C2CCC2(C)C1CCC2(C)O
Mol. weight [g/mol]:	304.47
CAS:	521-10-8

Physical Properties

Property code	Value	Unit	Source
gf	7.11	kJ/mol	Joback Method
hf	-469.18	kJ/mol	Joback Method
hfus	22.92	kJ/mol	Joback Method
hvap	90.56	kJ/mol	Joback Method
log10ws	-5.17		Crippen Method
logp	4.061		Crippen Method
mcvol	256.660	ml/mol	McGowan Method
pc	1971.80	kPa	Joback Method
rinpol	2634.20		NIST Webbook
rinpol	2570.00		NIST Webbook
tb	880.52	K	Joback Method
tc	1100.10	K	Joback Method
tf	563.22	K	Joback Method
vc	0.959	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	935.87	J/mol×K	880.52	Joback Method
cpg	961.45	J/mol×K	917.12	Joback Method
cpg	988.11	J/mol×K	953.71	Joback Method
cpg	1016.23	J/mol×K	990.31	Joback Method
cpg	1046.18	J/mol×K	1026.91	Joback Method
cpg	1078.34	J/mol×K	1063.51	Joback Method
cpg	1113.10	J/mol×K	1100.10	Joback Method

Sources

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C521108&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
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume