Dromostanolone Propionate

Other names:	Androstan-3-one, 2-methyl-17-(1-oxopropoxy)-, (2«alpha»,5«alpha»,17«beta»)- Blackburn Compound Drolban Drostanolone propionate Emdisterone Lilly 32379 Masterid Masteril Masterone Medrotestron propionate MDHT Permastril Re 346 RS 1567 Testosterone, 4,5«alpha»-dihydro-2«alpha»-methyl-, propionate 17«beta»-Hydroxy-2«alpha»-methyl-5«alpha»-androstan-3-one propionate 2«alpha»-Methyl-4,5-dihydrotestosterone propionate 2«alpha»-Methyldihydrotestosterone propionate 2M-DHTP 2MDTP 32379 357429 5«alpha»-Androstan-3-one, 17«beta»-hydroxy-2«alpha»-methyl-, propionate Masteron Medrotestrone propanoate Medrotestrone propionate
Inchi:	InChI=1S/C23H36O3/c1-5-21(25)26-20-9-8-17-16-7-6-15-12-19(24)14(2)13-23(15,4)18(1
InchiKey:	NOTIQUSPUUHHEH-KVNMZGSESA-N
Formula:	C23H36O3
SMILES:	CCC(=O)OC1CCC2C3CCC4CC(=O)C(C)CC4(C)C3CCC12C
Mol. weight [g/mol]:	360.53
CAS:	521-12-0

Physical Properties

Property code	Value	Unit	Source
gf	-73.05	kJ/mol	Joback Method

hf	-691.03	kJ/mol	Joback Method
hfus	31.35	kJ/mol	Joback Method
hvap	77.17	kJ/mol	Joback Method
log10ws	-5.59		Crippen Method
logp	5.166		Crippen Method
mcvol	300.500	ml/mol	McGowan Method
pc	1330.04	kPa	Joback Method
tb	899.86	K	Joback Method
tc	1138.44	K	Joback Method
tf	403.00 ± 1.00	K	NIST Webbook
vc	1.135	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1109.80	J/mol×K	899.86	Joback Method
cpg	1138.42	J/mol×K	939.62	Joback Method
cpg	1166.90	J/mol×K	979.39	Joback Method
cpg	1195.55	J/mol×K	1019.15	Joback Method
cpg	1224.67	J/mol×K	1058.91	Joback Method
cpg	1254.58	J/mol×K	1098.68	Joback Method
cpg	1285.58	J/mol×K	1138.44	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C521120&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume