2«alpha»-Methyl-dihydrotestosterone propioate

Other names: 2-Methyl-3-oxoandrostan-17-yl propionate-, (2-«alpha»,5-«alpha»,17-«beta»)-
Dromostanolone, propionate
Androstan-3-one, 17«beta»-hydroxy-2«alpha»-methyl-, 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-MHKCEBNGSA-N

Formula: C23H36O3

SMILES: CCC(=O)OC1CCC2C3CCC4CC(=O)C(C)CC4(C)C3CCC12C

Mol. weight [g/mol]: 360.53

CAS: 7438-48-4

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	574.35	K	Joback Method
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

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=C7438484&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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