Drostanolone

Other names:	Androstan-3-one, 17-hydroxy-2-methyl-, (2«alpha»,5«alpha»,17«beta»)- Dromostanolone Dihydro-2«alpha»-methyltestosterone Medrotestron Metholone Medrosteron SKI 27719 Testosterone, 4,5«alpha»-dihydro-2«alpha»-methyl- 2«alpha»-Methyldihydrotestosterone 5«alpha»-Androstan-3-one, 17«beta»-hydroxy-2«alpha»-methyl- 17-«beta»-Hydroxy-2-«alpha»-methyl-5-«alpha»-androstan-3-one 2-«alpha»-Methyl-17-«beta»-hydroxy-5-«alpha»-androstan-3-one Methalone
Inchi:	InChI=1S/C20H32O2/c1-12-11-20(3)13(10-17(12)21)4-5-14-15-6-7-18(22)19(15,2)9-8-16
InchiKey:	IKXILDNPCZPPRV-UHFFFAOYSA-N
Formula:	C20H32O2
SMILES:	CC1CC2(C)C(CCC3C4CCC(O)C4(C)CCC32)CC1=O
Mol. weight [g/mol]:	304.47
CAS:	58-19-5

Physical Properties

Property code	Value	Unit	Source
gf	-1.21	kJ/mol	Joback Method
hf	-536.54	kJ/mol	Joback Method
hfus	24.88	kJ/mol	Joback Method
hvap	78.01	kJ/mol	Joback Method
log10ws	-4.74		Crippen Method
logp	4.205		Crippen Method
mcvol	256.660	ml/mol	McGowan Method
pc	1724.59	kPa	Joback Method
rinpol	2666.30		NIST Webbook
rinpol	2666.30		NIST Webbook
tb	847.11	K	Joback Method
tc	1078.03	K	Joback Method
tf	529.20	K	Joback Method
vc	0.962	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	936.15	J/mol×K	847.11	Joback Method
cpg	961.85	J/mol×K	885.60	Joback Method
cpg	987.33	J/mol×K	924.08	Joback Method
cpg	1012.88	J/mol×K	962.57	Joback Method
cpg	1038.81	J/mol×K	1001.06	Joback Method
cpg	1065.39	J/mol×K	1039.54	Joback Method
cpg	1092.93	J/mol×K	1078.03	Joback Method

Sources

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=C58195&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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