

Oxandrolone

Other names:

2-Oxaandrostan-3-one, 17-hydroxy-17-methyl-, (5«alpha»,17«beta»)-
Anavar
Lonavar
Protivar
Provitar
SC 11585
Vasorome
1H-Benz(e)indene-7-acetic acid,
dodecahydro-3-hydroxy-6-(hydroxymethyl)-3,3a,6-trimethyl-«delta»-lactone
17«beta»-Hydroxy-17-methyl-2-oxa-5«alpha»-androstan-3-one
17-«beta»-hydroxy-17-methyl-2-oxa-androstan-3-one
2-Oxa-5«alpha»-androstan-3-one, 17«beta»-hydroxy-17-methyl-
8075 C. B.
17«beta»-Hydroxy-17«alpha»-methyl-2-oxa-5«alpha»-androstan-3-one
NSC-67068
8075CB
Oxandrin
7-Hydroxy-4a,6a,7-trimethyltetradecahydroindeno[4,5-H]isochromen-2(1H)-one
Inchi: InChI=1S/C19H30O3/c1-17-11-22-16(20)10-12(17)4-5-13-14(17)6-8-18(2)15(13)7-9-19(20)
InchiKey: QSLJIVKCVHQPLV-WPMSWULFSA-N
Formula: C19H30O3
SMILES: CC12COC(=O)CC1CCC1C2CCC2(C)C1CCC2(C)O
Mol. weight [g/mol]: 306.44
CAS: 53-39-4

Physical Properties

Property code	Value	Unit	Source
gf	-93.53	kJ/mol	Joback Method
hf	-612.32	kJ/mol	Joback Method
hfus	22.90	kJ/mol	Joback Method
hvap	79.46	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	3.543		Crippen Method
mcvol	248.440	ml/mol	McGowan Method
pc	1987.66	kPa	Joback Method
rinpol	2844.80		NIST Webbook
rinpol	2844.80		NIST Webbook
tb	856.09	K	Joback Method

tc	1094.71	K	Joback Method
tf	572.64	K	Joback Method
vc	0.925	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	904.02	J/mol×K	856.09	Joback Method
cpg	931.03	J/mol×K	895.86	Joback Method
cpg	958.84	J/mol×K	935.63	Joback Method
cpg	987.90	J/mol×K	975.40	Joback Method
cpg	1018.64	J/mol×K	1015.17	Joback Method
cpg	1051.50	J/mol×K	1054.94	Joback Method
cpg	1086.93	J/mol×K	1094.71	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=C53394&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
rinpola:	Non-polar retention indices

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

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