

Nandrolone

Other names:	Estr-4-en-3-one, 17-hydroxy-, (17«beta»)- Estr-4-en-3-one, 17«beta»-hydroxy- Menidrabol Nandrolon Norandrostenolon Norandrostenolone Nortestonate Oestrenolon 19-Norandrostenolone 19-Nortestosterone 4-Estren-17«beta»-ol-3-one U 2410 Nortestosterone (+)-19-Nortestosterone (17«beta»)-19-Nortestosterone NSC 3351 19-Testosterone 17-«beta»-Hydroxyestr-4-en-3-one 17-Hydroxyestr-4-en-3-one
Inchi:	InChI=1S/C18H26O2/c1-18-9-8-14-13-5-3-12(19)10-11(13)2-4-15(14)16(18)6-7-17(18)20
InchiKey:	NPAGDVCDWIYMMC-SVXFNXITSA-N
Formula:	C18H26O2
SMILES:	CC12CCC3C4CCC(=O)C=C4CCC3C1CCC2O
Mol. weight [g/mol]:	274.40
CAS:	434-22-0

Physical Properties

Property code	Value	Unit	Source
gf	23.19	kJ/mol	Joback Method
hf	-423.51	kJ/mol	Joback Method
hfus	24.69	kJ/mol	Joback Method
hvap	76.28	kJ/mol	Joback Method
log10ws	-4.24		Crippen Method
logp	3.489		Crippen Method
mcvol	224.180	ml/mol	McGowan Method
pc	2115.83	kPa	Joback Method
rinpol	2668.20		NIST Webbook

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tb	814.59	K	Joback Method
tc	1047.67	K	Joback Method
tf	504.52	K	Joback Method
vc	0.840	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	782.94	J/mol×K	814.59	Joback Method
cpg	804.49	J/mol×K	853.44	Joback Method
cpg	825.20	J/mol×K	892.28	Joback Method
cpg	845.28	J/mol×K	931.13	Joback Method
cpg	864.92	J/mol×K	969.98	Joback Method
cpg	884.32	J/mol×K	1008.83	Joback Method
cpg	903.68	J/mol×K	1047.67	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=C434220&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

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