

# Nortestosterone, HFB

<b>Inchi:</b>	InChI=1S/C22H25F7O3/c1-19-9-8-14-13-5-3-12(30)10-11(13)2-4-15(14)16(19)6-7-17(19)
<b>InchiKey:</b>	BMBDDMGNZZCDHG-DVRUMADJSA-N
<b>Formula:</b>	C22H25F7O3
<b>SMILES:</b>	CC12CCC3C4CCC(=O)C=C4CCC3C1CCC2OC(=O)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	470.42

## Physical Properties

Property code	Value	Unit	Source
gf	-1395.38	kJ/mol	Joback Method
hf	-1997.66	kJ/mol	Joback Method
hfus	33.07	kJ/mol	Joback Method
hvap	68.06	kJ/mol	Joback Method
log10ws	-6.80		Crippen Method
logp	5.873		Crippen Method
mcvol	294.500	ml/mol	McGowan Method
pc	1220.85	kPa	Joback Method
rinpol	2440.00		NIST Webbook
rinpol	2440.00		NIST Webbook
tb	875.42	K	Joback Method
tc	1090.90	K	Joback Method
tf	572.33	K	Joback Method
vc	1.161	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1061.71	J/molxK	875.42	Joback Method
cpg	1081.75	J/molxK	911.33	Joback Method
cpg	1101.17	J/molxK	947.25	Joback Method
cpg	1120.19	J/molxK	983.16	Joback Method
cpg	1139.03	J/molxK	1019.07	Joback Method
cpg	1157.91	J/molxK	1054.98	Joback Method
cpg	1177.06	J/molxK	1090.90	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R170006&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R170006&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>h vap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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