

# Testosterone, 3-pentafluoropionate, 17«beta»-Ac

Inchi:	InChI=1S/C24H29F5O4/c1-13(30)32-19-7-6-17-16-5-4-14-12-15(33-20(31)23(25,26)24(2
InchiKey:	UTCLHGGWRHENBF-QTJPOHIASA-N
Formula:	C24H29F5O4
SMILES:	CC(=O)OC1CCC2C3CCC4=CC(OC(=O)C(F)(F)C(F)(F)F)=CCC4(C)C3CCC12C
Mol. weight [g/mol]:	476.48

## Physical Properties

Property code	Value	Unit	Source
gf	-1088.25	kJ/mol	Joback Method
hf	-1683.52	kJ/mol	Joback Method
hfus	37.31	kJ/mol	Joback Method
hvap	80.15	kJ/mol	Joback Method
log10ws	-7.26		Crippen Method
logp	6.115		Crippen Method
mcvol	320.710	ml/mol	McGowan Method
pc	1184.16	kPa	Joback Method
rinsol	2528.00		NIST Webbook
tb	938.72	K	Joback Method
tc	1160.64	K	Joback Method
tf	632.39	K	Joback Method
vc	1.250	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1157.36	J/mol×K	938.72	Joback Method
cpg	1181.69	J/mol×K	975.71	Joback Method
cpg	1206.63	J/mol×K	1012.69	Joback Method
cpg	1232.51	J/mol×K	1049.68	Joback Method
cpg	1259.64	J/mol×K	1086.67	Joback Method
cpg	1288.36	J/mol×K	1123.65	Joback Method
cpg	1318.98	J/mol×K	1160.64	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=R135756&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R135756&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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