

# Testosterone, 3-pentafluoropropionate, 17.beta.-HFB

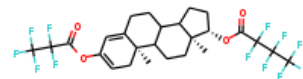
**InChI:** InChI=1S/C26H26F12O4/c1-20-9-7-13(41-19(40)23(29,30)25(33,34)35)11-12(20)3-4-14-15-5-6-17(21(15,2)10-8-16(14)20)42-18(39)22(27,28)24(31,32)26(36,37)38/h7,11,14-17H,3-6,8-10H2,1-2H3/t14?,15?,16?,17-,20-,21-/m1/s1

**InChI Key:** USLXJCDJCHXXGL-FVLSIOMWSA-N

**Formula:** C<sub>26</sub>H<sub>26</sub>F<sub>12</sub>O<sub>4</sub>

**SMILES:** CC12CCC3C(CCC4=CC(OC(=O)C(F)(F)C(F)(F)F)=CCC43C)C1CCC2OC(=O)C(F)(F)C(F)(F)C(F)(F)F

**Molecular Weight:** 630.46



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-2426.56	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-3123.82	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	41.81	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	75.00	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	7.93		Crippen Method
$P_c$	887.88	kPa	Joback Method
$T_{\text{boil}}$	969.68	K	Joback Method
$T_c$	1187.21	K	Joback Method
$T_{\text{fus}}$	666.32	K	Joback Method
$V_c$	1.45	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	1334.61	J/mol×K	969.68	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**NIST Webbook:** [http://webbook.nist.gov/cgi/inchi/InChI=1S/C26H26F12O4/c1-20-9-7-13\(41-19\(40\)23\(29,30\)25\(33,34\)35\)11-12\(20\)3-4-14-15-5-6-17\(21\(15,2\)10-8-16\(14\)20\)42-18\(39\)22\(27,28\)24\(31,32\)26\(36,37\)38/h7,11,14-17H,3-6,8-10H2,1-2H3/t14?,15?,16?,17-,20-,21-/m1/s1](http://webbook.nist.gov/cgi/inchi/InChI=1S/C26H26F12O4/c1-20-9-7-13(41-19(40)23(29,30)25(33,34)35)11-12(20)3-4-14-15-5-6-17(21(15,2)10-8-16(14)20)42-18(39)22(27,28)24(31,32)26(36,37)38/h7,11,14-17H,3-6,8-10H2,1-2H3/t14?,15?,16?,17-,20-,21-/m1/s1)

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

$C_{p,gas}$ : Ideal gas heat capacity (J/mol×K).

$\Delta_f G^\circ$ : Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$ : Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$ : Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$ : Enthalpy of vaporization at standard conditions (kJ/mol).

$logP_{oct/wat}$ : Octanol/Water partition coefficient .

$P_c$ : Critical Pressure (kPa).

$T_{boil}$ : Normal Boiling Point Temperature (K).

$T_c$ : Critical Temperature (K).

$T_{fus}$ : Normal melting (fusion) point (K).

$V_c$ : Critical Volume (m<sup>3</sup>/kg-mol).

Latest version available from:

<https://old.cheméo.com/cid/27-698-8/Testosterone%2C%203-pentafluoropropionate%2C%2017.beta.-HF>  
B

Generated by Cheméo on Thu, 27 Jan 2022 00:23:20 +0000.

**Cheméo** (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.