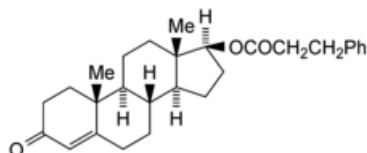




Edition: BP 2025 (Ph. Eur. 11.6 update)

Testosterone Phenylpropionate

[General Notices](#)



$C_{28}H_{36}O_3$ 420.6 1255-49-8

Action and use

Androgen.

DEFINITION

Testosterone Phenylpropionate is 3-oxo-androst-4-en-17 β -yl 3-phenylpropionate. It contains not less than 97.0% and not more than 103.0% of $C_{28}H_{36}O_3$, calculated with reference to the dried substance.

CHARACTERISTICS

A white to almost white, crystalline powder.

Practically insoluble in [water](#); sparingly soluble in [ethanol \(96%\)](#).

IDENTIFICATION

- A. The [infrared absorption spectrum](#), [Appendix II A](#), is concordant with the *reference spectrum* of testosterone phenylpropionate ([RSV 43](#)). If the spectra are not concordant, dissolve the substances in the minimum volume of [dichloromethane](#), evaporate to dryness and prepare a new spectrum of the residue.
- B. Complies with the test for [identification of steroids](#), [Appendix III A](#), using *impregnating solvent III* and *mobile phase F*.
- C. Dissolve 25 mg in 1 mL of [methanol](#), add 2 mL of [semicarbazide acetate solution](#), heat under a reflux condenser for 30 minutes and cool. The [melting point](#) of the resulting precipitate is about 218°, [Appendix V A](#).

TESTS

Melting point

114° to 117°, [Appendix V A](#).

Specific optical rotation

In a 1% w/v solution in [1,4-dioxan](#), +86 to +91, calculated with reference to the dried substance, [Appendix V F](#).

Loss on drying

When dried to [constant weight](#) at 105°, loses not more than 0.5% of its weight. Use 1 g.

Sulfated ash

Not more than 0.1%, [Appendix IX A](#).

ASSAY

Dissolve 10 mg in sufficient [absolute ethanol](#) to produce 100 mL, dilute 5 mL to 50 mL with [absolute ethanol](#) and measure the [absorbance](#) of the resulting solution at the maximum at 240 nm, [Appendix II B](#). Calculate the content of $C_{28}H_{36}O_3$ taking 395 as the value of $A(1\%, 1\text{ cm})$ at the maximum at 240 nm.

STORAGE

Testosterone Phenylpropionate should be protected from light.