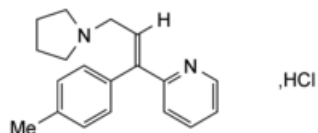




Edition: BP 2025 (Ph. Eur. 11.6 update)

Triprolidine Hydrochloride

[General Notices](#)



$C_{19}H_{22}N_2 \cdot HCl \cdot H_2O$ 332.9 6138-79-0

Action and use

[Histamine](#) H_1 receptor antagonist; antihistamine.

Preparation

[Triprolidine Tablets](#)

DEFINITION

Triprolidine Hydrochloride is (*E*)-2-(3-pyrrolidin-1-yl-1-*p*-tolylprop1-enyl)pyridine hydrochloride monohydrate. It contains not less than 98.5% and not more than 101.0% of $C_{19}H_{22}N_2 \cdot HCl$, calculated with reference to the anhydrous substance.

CHARACTERISTICS

A white, crystalline powder.

Freely soluble in [water](#); freely soluble in [ethanol \(96%\)](#) and practically insoluble in [ether](#).

IDENTIFICATION

A. The [infrared absorption spectrum](#), [Appendix II A](#), is concordant with the *reference spectrum* of triprolidine hydrochloride ([RS 356](#)).

B. Yields reaction A characteristic of *chlorides*, [Appendix VI](#).

TESTS

Related substances

Carry out the method for [thin-layer chromatography](#), [Appendix III A](#), using the following solutions in [methanol](#).

- (1) 1.0% w/v of the substance being examined.
- (2) 0.020% w/v of *Z*-[triprolidine hydrochloride BPCRS](#).

- (3) 0.010% w/v of the substance being examined.

CHROMATOGRAPHIC CONDITIONS

- (a) Use as the coating silica gel F_{254} (Merck [silica gel 60 \$F_{254}\$](#) plates are suitable).
- (b) Use the mobile phase as described below.
- (c) Apply 5 μ L of each solution.
- (d) Develop the plate to 15 cm.
- (e) After removal of the plate, dry in air, examine under [ultraviolet light \(254 nm\)](#).

MOBILE PHASE

Equal volumes of [butan-2-one](#) and [dimethylformamide](#).

LIMITS

In the chromatogram obtained with solution (1):

any spot corresponding to Z-triprolidine is not more intense than the spot in the chromatogram obtained with solution (2);
and any other [secondary spot](#) is not more intense than the spot in the chromatogram obtained with solution (3).

[Sulfated ash](#)

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

[Water](#)

4.5 to 6.0% w/w, [Appendix IX C](#). Use 0.4 g.

ASSAY

Carry out Method I for [non-aqueous titration](#), [Appendix VIII A](#), using 0.25 g dissolved in a mixture of 50 mL of [anhydrous acetic acid](#) and 0.5 mL of [acetic anhydride](#) and [crystal violet solution](#) as indicator. Each mL of [0.1M perchloric acid VS](#) is equivalent to 15.74 mg of $C_{19}H_{22}N_2 \cdot HCl$.