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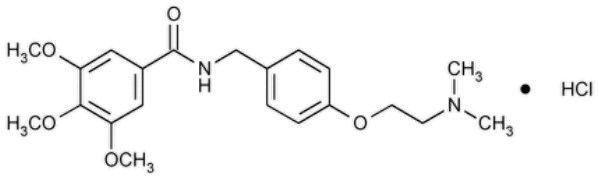
Trimethobenzamide Hydrochloride

Change to read:



$C_{21}H_{28}N_2O_5 \cdot HCl$ 424.92

Benzamide, *N*-[[4-[2-(dimethylamino)ethoxy]phenyl]methyl]-3,4,5-trimethoxy-, monohydrochloride.

▲*N*-[4-[2-(Dimethylamino)ethoxy]benzyl]-3,4,5-trimethoxybenzamide monohydrochloride▲ (ERR 1-Aug-2023) CAS RN®: 554-92-7; UNII: WDQ5P1SX7Q.

» Trimethobenzamide Hydrochloride, dried at 105° for 4 hours, contains not less than 98.5 percent and not more than 100.5 percent of $C_{21}H_{28}N_2O_5 \cdot HCl$.

Packaging and storage—Preserve in well-closed containers.

USP Reference standards ⟨11⟩—
USP Trimethobenzamide Hydrochloride RS

Identification—

A: *Spectroscopic Identification Tests* ⟨197⟩, *Infrared Spectroscopy: 197K*.

B: *Spectroscopic Identification Tests* ⟨197⟩, *Ultraviolet-Visible Spectroscopy: 197U*—

Solution: 20 µg per mL.

Medium: 0.1 N hydrochloric acid.

Absorptivities at 258 nm, calculated on the dried basis, do not differ by more than 3.0%.

C: It meets the requirements of the *Thin-layer Chromatographic Identification Test* ⟨201⟩. Prepare the test solution by dissolving 10 mg of Trimethobenzamide Hydrochloride in 10.0 mL of methanol. Apply 10-µL portions of the test solution and the Standard solution to the plate, and develop in a solvent system consisting of a mixture of ethyl acetate, alcohol, and ammonium hydroxide (90:10:5).

D: It meets the requirements of the tests for *Chloride* ⟨191⟩.

Melting range, *Class I* ⟨741⟩**:** between 186° and 190°.

Loss on drying ⟨731⟩—Dry it at 105° for 4 hours: it loses not more than 0.5% of its weight.

Residue on ignition ⟨281⟩**:** not more than 0.1%.

Assay—Dissolve about 1.3 g of Trimethobenzamide Hydrochloride, previously dried and accurately weighed, in 80 mL of glacial acetic acid and 15 mL of mercuric acetate TS. Titrate with 0.1 N perchloric acid VS, determining the endpoint potentiometrically using suitable electrodes. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N perchloric acid is equivalent to 42.49 mg of $C_{21}H_{28}N_2O_5 \cdot HCl$.

Auxiliary Information - Please check for your question in the FAQs before contacting USP.

Topic/Question	Contact	Expert Committee
TRIMETHOBENZAMIDE HYDROCHLORIDE	Documentary Standards Support	SM32020 Small Molecules 3
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM32020 Small Molecules 3

Chromatographic Database Information: Chromatographic Database

Most Recently Appeared In:
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