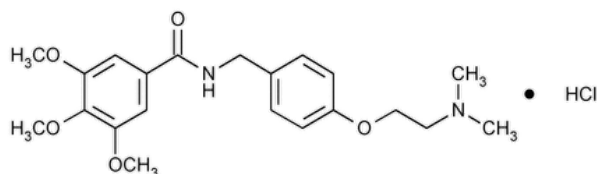


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# Trimethobenzamide Hydrochloride

## 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 | <a href="#">Documentary Standards Support</a>                               | SM32020 Small Molecules 3 |
| REFERENCE STANDARD SUPPORT      | RS Technical Services<br><a href="mailto:RSTECH@usp.org">RSTECH@usp.org</a> | SM32020 Small Molecules 3 |

**Chromatographic Database Information:** [Chromatographic Database](#)

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