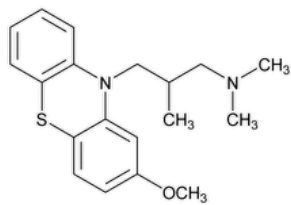


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Methotrimeprazine



$C_{19}H_{24}N_2OS$ 328.47
10*H*-Phenothiazine-10-propanamine, 2-methoxy-*N,N*,β-trimethyl-, (-);
(-)-10-[3-(Dimethylamino)-2-methylpropyl]-2-methoxyphenothiazine CAS RN®: 60-99-1; UNII: 9G0LAW7ATQ.

DEFINITION
Methotrimeprazine contains NLT 98.0% and NMT 101.0% of methotrimeprazine ($C_{19}H_{24}N_2OS$), calculated on the dried basis.
[NOTE—Throughout the following procedures, protect test or assay specimens, the USP Reference Standard, and the solutions containing them by conducting the procedures without delay under subdued light or by using low-actinic glassware.]

IDENTIFICATION
Change to read:
• **A.** ▲ [SPECTROSCOPIC IDENTIFICATION TESTS \(197\)](#), [Infrared Spectroscopy: 197K](#) ▲ (CN 1-MAY-2020)
• **B.** ▲ [SPECTROSCOPIC IDENTIFICATION TESTS \(197\)](#), [Ultraviolet-Visible Spectroscopy: 197U](#) ▲ (CN 1-MAY-2020) 197U
Solution: 7 µg/mL
Medium: Alcohol
Acceptance criteria: Absorptivities at 255 nm, calculated on the dried basis, do not differ by more than 3.0%.

ASSAY
• **PROCEDURE**
Sample solution: Dissolve about 700 mg of Methotrimeprazine in 100 mL of chloroform. Add 1 drop of a solution (1 in 500) of crystal violet in chloroform.
Analysis: Titrate the *Sample solution* with 0.1 N perchloric acid VS to the first disappearance of the violet tinge. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N perchloric acid is equivalent to 32.85 mg of methotrimeprazine ($C_{19}H_{24}N_2OS$).
Acceptance criteria: 98.0%–101.0% on the dried basis

IMPURITIES
• [SELENIUM \(291\)](#).
Test solution: Prepare with 100 mg of Methotrimeprazine and 100 mg of magnesium oxide.
Acceptance criteria: The absorbance of the *Test solution* is NMT one-half that of the *Standard Solution* (0.003%).

SPECIFIC TESTS
• [OPTICAL ROTATION, Specific Rotation\(781S\)](#).
Sample solution: 50 mg/mL in chloroform
Acceptance criteria: −15° to −18°
• [LOSS ON DRYING \(731\)](#).
Analysis: Dry at 100° for 3 h.
Acceptance criteria: NMT 0.5%

ADDITIONAL REQUIREMENTS
• **PACKAGING AND STORAGE:** Preserve in well-closed, light- resistant containers. Store at 25°, excursions permitted between 15° and 30°.
• [USP REFERENCE STANDARDS \(11\)](#).
[USP Methotrimeprazine RS](#)

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
METHOTRIMEPRAZINE	Documentary Standards Support	SM22020 Small Molecules 2

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

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