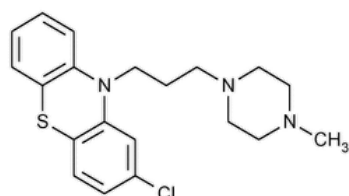


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Prochlorperazine



$C_{20}H_{24}ClN_3S$ 373.94

10*H*-Phenothiazine, 2-chloro-10-[3-(4-methyl-1-piperazinyl)propyl]-;

2-Chloro-10-[3-(4-methyl-1-piperazinyl)propyl]phenothiazine CAS RN®: 58-38-8; UNII: YHP6YLT61T.

DEFINITION

Prochlorperazine contains NLT 98.0% and NMT 101.0% of prochlorperazine ($C_{20}H_{24}ClN_3S$).

[NOTE—Throughout the following procedures, protect the sample, the Reference Standard, and solutions containing them, by conducting the procedures without delay, under subdued light, or using low-actinic glassware.]

IDENTIFICATION

• **A. IDENTIFICATION—ORGANIC NITROGENOUS BASES (181):** Meets the requirements when [USP Prochlorperazine Maleate RS](#) is used as the standard for comparison

ASSAY

PROCEDURE

Sample: 400 mg of Prochlorperazine

Analysis: Transfer the *Sample* to a 125-mL conical flask. Add 30 mL of glacial acetic acid, and warm on a steam bath to dissolve. Add 2 drops of crystal violet TS, and titrate with 0.1 N perchloric acid VS to a blue endpoint. Perform a blank determination (see [Titrimetry \(541\)](#)), and make any necessary corrections. Each mL of 0.1 N perchloric acid is equivalent to 18.70 mg of prochlorperazine ($C_{20}H_{24}ClN_3S$).

Acceptance criteria: 98.0%–101.0%

IMPURITIES

• **RESIDUE ON IGNITION (281):** NMT 0.1%

• **ORDINARY IMPURITIES (466):**

Standard solution: Methanol

Sample solution: Methanol

Eluant: Methanol and ammonium hydroxide (100:1)

Visualization: 1

ADDITIONAL REQUIREMENTS

• **PACKAGING AND STORAGE:** Preserve in tight, light-resistant containers.

• **USP REFERENCE STANDARDS (11):**
[USP Prochlorperazine Maleate RS](#)

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

Topic/Question	Contact	Expert Committee
PROCHLORPERAZINE	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:

Pharmacopeial Forum: Volume No. Information currently unavailable

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