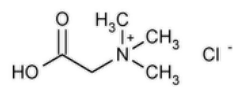


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Betaine Hydrochloride



$C_5H_{11}NO_2 \cdot HCl$ 153.61
Methanaminium, 1-carboxy-*N, N, N*-trimethyl-, chloride.
Betaine hydrochloride.

(Carboxymethyl)trimethylammonium chloride CAS RN®: 590-46-5; UNII: JK8U8K4D6K.

» Betaine Hydrochloride contains not less than 98.0 percent and not more than 100.5 percent of $C_5H_{11}NO_2 \cdot HCl$, calculated on the anhydrous basis.

Packaging and storage—Preserve in well-closed containers.

USP REFERENCE STANDARDS (11).—
[USP Betaine Hydrochloride RS](#)

Identification—

Change to read:

A: ▲ [Spectroscopic Identification Tests \(197\)](#), [Infrared Spectroscopy: 197K](#) ▲ (CN 1-May-2020) ·

B: A solution (1 in 20) responds to the tests for [Chloride \(191\)](#).

pH (791): between 0.8 and 1.2, in a solution (1 in 4).

WATER DETERMINATION, Method I (921): not more than 0.5%.

RESIDUE ON IGNITION (281): not more than 0.1%.

Assay—Transfer about 400 mg of Betaine Hydrochloride, accurately weighed, to a conical flask, add 50 mL of glacial acetic acid, and heat gently with swirling until solution is complete. Add 25 mL of mercuric acetate TS, cool, add 2 drops of crystal violet TS, and titrate with 0.1 N perchloric acid VS to a green endpoint. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N perchloric acid is equivalent to 15.36 mg of $C_5H_{11}NO_2 \cdot HCl$.

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

Topic/Question	Contact	Expert Committee
BETAINE HYDROCHLORIDE	Documentary Standards Support	SM32020 Small Molecules 3

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

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