

Status: Currently Official on 16-Feb-2025
Official Date: Official Prior to 2013
Document Type: Reagents
DocId: GUID-8CC84426-D217-45A8-877F-36454969A35A_1_en-US
DOI: https://doi.org/10.31003/USPNF_R1549_01_01
DOI Ref: qk8le

© 2025 USPC
Do not distribute

Tetramethylammonium Hydroxide, Pentahydrate,

$(\text{CH}_3)_4\text{NOH} \cdot 5\text{H}_2\text{O}$ 181.23 CAS RN[®]: 10424-65-4.—White to off-white crystals. Is hygroscopic. Strong base. Keep well-closed. Soluble in water and in methanol.

Assay: Accurately weigh about 800 mg, dissolve in 100 mL of water, and titrate with 0.1 N hydrochloric acid VS, determining the endpoint potentiometrically. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N hydrochloric acid is equivalent to 18.22 mg of $(\text{CH}_3)_4\text{NOH} \cdot 5\text{H}_2\text{O}$: not less than 98% is found.

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

Topic/Question	Contact	Expert Committee
TETRAMETHYLAMMONIUM HYDROXIDE, PENTAHYDRATE	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

Current DocID: [GUID-8CC84426-D217-45A8-877F-36454969A35A_1_en-US](#)

DOI: https://doi.org/10.31003/USPNF_R1549_01_01

DOI ref: [qk8le](#)

OFFICIAL