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Titanium Tetrachloride,

TiCl₄ 189.68 CAS RN[®]: 7550-45-0.—Clear, colorless liquid. Fumes in air. [**CAUTION**—It reacts violently with water.]

Assay: Accurately weigh 0.75 g into 100 mL of 2 N sulfuric acid contained in a Smith weighing buret. Pour the solution through a zinc–mercury reduction column into 50 mL of 0.1 N ferric ammonium sulfate VS. Elute with 100 mL of 2 N sulfuric acid and 100 mL of water. Add 10 mL of phosphoric acid, and titrate with 0.1 N potassium permanganate VS. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N potassium permanganate is equivalent to 18.97 mg of TiCl₄. Not less than 99.5% is found.

Boiling Range (Reagent test): between 135° and 140°.

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

Topic/Question	Contact	Expert Committee
TITANIUM TETRACHLORIDE	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

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