



>>Entry Name: Titanium(IV) hydroxide (Ti(OH)₄), 11Cl

Synonym(s): Titanic acid. Orthotitanic acid. Titanic hydroxide

CAS Registry Number: 20338-08-3

Ti(OH)₄

Molecular Formula: H₄O₄Ti

Molecular Weight: 115.909

Accurate Mass: 115.958907

Percentage Composition: H 3.48%; O 55.21%; Ti 41.31%

Source/Synthesis: Synth. by adding alkali (MOH, NH₄OH etc.) to a soln. of a Ti(IV) salt to achieve pH 8-9

Use/Importance: Catalyst; used in electrochromic devices, to immobilise microorganisms or as an adsorbent e.g. for actinide ions. Gel in sunscreen products

Physical Description: White solid or transparent gel

References:

Bekkerman, L.I. *et al.*, *Izv. Akad. Nauk SSSR, Neorg. Mater.*, 1975, **11**, 1084; *CA*, **83**, 155827n, (*synth*)

Japan. Pat., 1979, 79 124 900; *CA*, **92**, 96263m, (*manuf*)

U.S.S.R. Pat., 1983, 1 054 301; *CA*, **100**, 70714t, (*synth*)