

## Abstract

A process for preparing a titanium silicate having the RUT structure comprises the steps (i) and (ii):

- (i) preparation of a mixture comprising at least one  $\text{SiO}_2$  source and at least one titanium source;
- (ii) crystallization of the mixture from (i) in a pressure vessel with addition of at least one template compound to give a crystallization product,

wherein the template compounds used are amines or ammonium salts which are suitable for stabilizing cages of the silicate structure  $[4^45^46^2]$  and  $[4^45^66^58^1]$ .