

PROCESS FOR MAKING TITANIUM-MWW ZEOLITE

Abstract

Titanium-MWW zeolite is prepared by heating a gel formed from a titanium compound, a silicon source, a boron source, an MWW-templating agent, and water at a temperature in the range of 35°C to 75°C for a period of 8 to 30 hours to form a pre-crystallized gel, and heating the pre-crystallized gel to a temperature in the range of 160°C to 190°C for a period of 5 or more days to form the titanium-MWW zeolite. The zeolite, after it is contacted with an acid, is useful in olefin epoxidation with hydrogen peroxide.

Figure: None