

Abstract**METHOD FOR PRODUCING ZIRCONIUM DIOXIDE NANOPARTICLES IN THE PRESENCE OF AMINO ACID**

5

This invention relates to a process for preparing nanoparticles of zirconium dioxide, ZrO_2 , by hydrothermal treatment of a zirconium IV compound in the presence of water, at a pH below 7, and at least one amino acid comprising at least 4 carbon atoms, said amino acid exhibiting an acid function to amine function ratio greater than or equal to 1. The invention also relates to

10 zirconium dioxide nanoparticles having a visible transmittance greater than or equal to 20% at 400 nm and greater than or equal to 95% at 800 nm measured in water at a concentration of 40% by weight.

15 (No Suitable Figure)