

ABSTRACT

A method of preparing a composite catalyst for polyester synthesis includes the steps of: 1) sequentially dissolving a titanium compound, a silicon compound and a tin compound in an organic solvent; 2) adding a water solution of an acidic compound or of an alkaline compound in the compound from step 1) to cause hydrolysis thereof and collecting a precipitate, and washing the hydrolysis precipitate with a deionized water to obtain the composite catalyst. The catalyst is not only effective in polyester production polycondensation, but also has significant catalytic activity in esterification. The produced polyester chips all have a desirable hue.