

TITLE OF THE INVENTION
METHOD FOR PRODUCING TERTIARY BUTYL ALCOHOL
ABSTRACT

A method for producing tert-butyl alcohol, including (i) a step of feeding a raw material liquid including isobutylene and water, to a reactor having a cation exchange resin, and (ii) a step of producing a reaction product including tert-butyl alcohol, by hydration reaction of isobutylene in the reactor, in which, in step (ii), the average superficial linear velocity of the raw material liquid, as calculated in the following expression (I), is 5 m/hour or more,
Average linear velocity of raw material liquid (m/hour) =
Volume flow rate of raw material liquid (m³/hour)/Cross-sectional area of reactor (m²) (I), and
the volume of an aqueous phase (V_w) in a fluid (fluid A) to the total volume of the fluid A in the reactor is 4 to 12% by volume.

(Figure 2)