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ABSTRACT

PROCESS FOR PRODUCING ISOBUTYLENE AND METHANOL

A process for producing isobutylene and methanol comprising:

5 a first step of subjecting methyl-tert-butyl ether to decomposition in the presence of a catalyst to obtain a reaction liquid;

 a second step of washing the resultant with water to separate the reaction liquid into an oil layer and an aqueous
10 layer;

 a third step of subjecting the oil layer to distillation to obtain a fraction containing isobutylene and a dialkyl ether from the top of a distillation column, a fraction containing methyl-tert-butyl ether and the heavy components from the bottom
15 of the column and a fraction containing methyl-tert-butyl ether from a side cut of the column, and recycling the side cut fraction to the first step; and

 a fourth step of subjecting the aqueous layer to distillation to obtain a fraction containing methanol from the
20 top of a distillation column and a fraction containing water from the bottom of the column.