



162162

15



G00002

ABSTRACT

PROCESS FOR PRODUCING ISOBUTYLENE AND METHANOL

A process for producing isobutylene and methanol, comprising decomposing methyl-tert-butylether into isobutylene
5 and methanol, and separating into isobutylene and methanol, thereby individually recovering isobutylene and methanol, the process comprising the following steps:

a first step of subjecting methyl-tert-butylether to decomposition in the presence of a solid acid catalyst;
10 a second step of washing the resultant with water to separate into an oil layer and a water layer;

a third step of subjecting the oil layer to distillation to obtain a fraction from the top of the distillation column and a fraction from the bottom thereof; and

15 a fourth step of subjecting the water layer to distillation to obtain a fraction containing methanol from the top of the distillation column, a fraction containing water from the bottom thereof and a fraction rich in tert-butanol from a side cut thereof, and then recycling a part or whole of the fraction from the side
20 cut to the first step.