

ABSTRACT**METHOD FOR PRODUCING ISOBUTENE HOMO- OR COPOLYMERS**

- 5 Production of isobutene homo- or copolymers having a number average molecular weight of 500 to 5,000,000 by polymerisation of isobutene or an isobutene-containing monomer mixture in the presence of a Lewis acid or a complex containing a Lewis acid as a polymerisation catalyst, the polymerisation being performed in the presence of at least one hemiacetal or acetal, which can be obtained by protonic acid-catalysed
- 10 reaction of at least one C1 to C12 hydrocarbyl alcohol with at least one aldehyde or ketone having 1 to 12 carbon atoms.

(No Figure)