

**Abstract****Process for producing alkyl methacrylates and optionally methacrylic acid**

- 5    The present invention relates to a novel process for producing methacrylates such as methacrylic acid and/or alkyl methacrylates, in particular MMA. In particular, the present invention relates to an increase in the yield and increase in the efficiency of C4-based production processes, that is to say in particular such processes starting from isobutylene or tert-butanol as raw material.
- 10   The present process according to the invention allows such processes to be operated for longer periods without disruption and with the same or even increased activities and selectivities. It also allows such processes to be executed in a manner that is as simple, cost-effective and environmentally friendly as possible.
- 15   Fig. 1