

Process for preparing acrolein or acrylic acid or a mixture thereof from propane

Abstract

- 5 A process for preparing acrolein, or acrylic acid or a mixture thereof as a target product from propane, in which propane is partially dehydrogenated under heterogeneous catalysis in a reaction zone A, molecular hydrogen thus formed is incinerated partly to water and the product gas A thus formed in reaction zone A is used without secondary component removal to charge a reaction zone B in which propylene present in product
- 10 gas A is partially oxidized to the target product. From the product gas B formed in reaction zone B, the target product is removed and the residual gas I remaining after an aftertreatment comprising a CO₂ scrubbing and a partial discharge thereof is recycled into reaction zone A.