

Industrial heterogeneously catalyzed gas-phase oxidation of propane to acrolein

5 Abstract

10 In an industrial process for the heterogeneously catalyzed gas-phase oxidation of propane with molecular oxygen to give acrolein, the feed gas mixture having an initial undiluted molar ratio of the reactants propane:O₂ of 7:3 is diluted with the reactant propane and, if desired, inert gases in such a way that the feed gas mixture comprises more than 70 % by volume of propane and at least 5 % by volume of O₂.

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