

PRODUCTION OF OLEFINS BY CONJUGATED OXIDATION OF LIGHT HYDROCARBONS

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Abstract: Fast growth of olefins consumption makes it necessary to develop new ways of their production. The paper discusses some new possibilities including oxidative pyrolysis of propane, conjugated mutual oxidation of propane and ethylene, conjugated mutual oxidation of propane and methane and methane introduction into products of rich methane flame. The obtained results confirm the possibility of obtaining propylene and heavier olefins from hydrocarbon gases and even from the simplest hydrocarbon — methane.

Keywords: natural gas; olefins; radical activation; propylene; methyl radical

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