

عنوان مقاله:

Non-Oxidative Aromatization of CH₄ Applying C₃H₈ as a Co- Reactant

محل انتشار:

چهاردهمین کنگره ملی مهندسی شیمی ایران (سال: 1391)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Parisa Moghimpour Bijani - *Chemical Engineering Department, Amirkabir University of Technology, Tehran, Iran*

Morteza Sohrabi

Saeed Sahebdehfar - *Catalyst Research Group, Petrochemical Research and Technology Company, National Petrochemical*

Reza Miremadeddin

خلاصه مقاله:

The co-aromatization of methane in the presence of propane using the bifunctional Zn/HZSM-5 catalyst (containing 0.4 wt% zinc) was studied. A fixed-bed stainless steel reactor was applied for catalytic performance tests. The results for conversion of methane-propane mixture over the catalyst under a variety of operating conditions showed that methane was in fact produced during the process rather than being consumed. Propane conversion and aromatics selectivity increased markedly with rising temperature and reducing space velocity. It was observed that increase in propane conversion occurs simultaneously with the enhancement of methane formation

کلمات کلیدی:

Non-oxidative aromatization, Methane, Propane, Zn/HZSM-5, Operating Condition

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/172002>

