

عنوان مقاله:

The conceptual framework for the Investigation of Catalyst Performance on Desulfurization in a Minirefinery

محل انتشار:

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خلاصه مقاله:

Considering to the growth in the consumption rate of fossil fuels and hydrocarbons, controlling the outcome pollution of these fuels has become more important compared to the past. Mercaptans and Hydrogen sulfides are typical compositions in hydrocarbons and are remarkably detected in the south pars gas reservoirs. Therefore Mercaptane treatment of LPG (C₃, C₄) and gas condensate (C₅~C₈) is considered in SPGC refineries and other downstream plants. Merox and DMC are well-known processes for demercaptanization used in high-capacity petroleum plants based on wash treatment with Caustic or amine or acid and regeneration of washing materials by a catalyst. the Catalyst with the composition of cobalt phthalocyanine acid can accelerate the oxidation of mercaptans to disulfide oils. The development of this process for mini refineries is investigated to empower fuel treatment capacity. Effective parameters in this method are specified for optimization of the process in mini refineries.

کلمات کلیدی:

IVKAZ, mini refinery, demercaptanization, sulfur removal, mercaptan

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