

Study of C5/C6 isomerization on Pt/H-zeolite catalyst in industrial conditions

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Abstract. This is an experimental study of C5/C6 isomerization on Pt/H- zeolite conducted in industrial conditions. The goal of the work was to find the kinetic parameters of the main isomerization reactions, by considering the industrial reactor as an ideal plug flow reactor. This assumption is fair, taking into account the high pressure and low linear velocity of the effluent in the reactor. The kinetic model can be used for the prediction of isomerizate production and quality.

Keywords: kinetic parameters, isomerization, LSRG