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PT/SAPO-11CATALYSTS: EFFECT OF PLATINUM LOADING METHOD ON THE HYDRO-ISOMERIZATION OF N-HEXADECANE

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The platinum nanoparticles (Pt NPs) supported on microporous silicoaluminophosphate-11 (SAPO-11) was efficiently prepared by the aid of ethylene glycol (EG) as the reducing agent free of any surfactant or hydrothermal process. Another platinum supported SAPO-11 sample was prepared for comparisons by the conventional wet impregnation method. Characterization of catalysts was carried out using N2 adsorption, XRD, NH_3-TPD, TPR, SEM, H_2 pulse chemisorptions and DLS. The bifunctional Pt/SAPO-11 catalysts performances for the hydroisomerization (HDI) of n-hexadecane (n-C16) are employed to investigate the effect of loading method and amount of platinum content in the support.

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