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Isomerization of Light Naphtha over Sulfur Tolerant Pd/SO₄²⁻/ZrO₂-Al₂O₃ Catalyst

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Isomerization of organic sulfur containing light naphtha was studied over metal sulfated zirconium catalyst. Even in the presence of sulfur compounds, Pd/SO₄²⁻/ZrO₂-Al₂O₃ catalyst indicated the high isomerization activity without catalyst deactivation. We supposed that isomerization activity was kept by continuous regeneration of the dehydrogenation active site through the desulfurization of sulfur compounds deposited on catalyst by Pd.

Keywords: [Sulfated zirconia catalyst](#), [Palladium catalyst](#), [Light naphtha](#), [Skeletal isomerization](#), [Sulfur tolerance](#)



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