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Review

# Catalytic dehydration of 2 propanol over Al<sub>2</sub>O<sub>3</sub>-Ga<sub>2</sub>O<sub>3</sub> and Pd/Al<sub>2</sub>O<sub>3</sub>-Ga<sub>2</sub>O<sub>3</sub> catalysts

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## Highlights

- Al<sub>2</sub>O<sub>3</sub>-Ga<sub>2</sub>O<sub>3</sub> solid solutions were obtained and resulted in high activity.
- The Pd deposited resulted in metallic nanoparticles highly dispersed.
- Gallium oxide content impact directly on the dehydration activity and selectivity.
- The morphology of Pd nanoparticles resulted Ga<sub>2</sub>O<sub>3</sub> content dependent.
- The highest activity among series was observed over the Pd/AlGa-50 catalyst.

Abstract