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Title: Reaction mechanism for glycerol dehydration in the gas phase over a solid acid catalyst determined with on-line gas chromatography

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ABSTRACT

Gas phase glycerol dehydration to form acrolein over a solid acid catalyst was studied to understand the formation of by-products and to establish a detailed reaction mechanism. The experiments were conducted in an isothermal fixed bed reactor operated under various conditions (temperature, space-time velocity, concentration). From a methodological point of view, many secondary products

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