

Supporting Information for

**Modifying the Reactivity in the Homologation of Propane by Introducing
Aryloxy Ligands on Silica Supported Zirconium Alkyl System**

Geoffroy Guillemot, Chloé Thieuleux,* Christophe Copéret, Daravong Soulivong, Stefan
Spitzmesser, and Jean-Marie Basset*

*Contribution from Laboratoire de Chimie Organométallique de Surface (UMR 9986 CNRS / ESCPE Lyon),
ESCPE Lyon, 43 Boulevard du 11 Novembre 1918, F-69616 Villeurbanne Cedex, France and INEOS Rue
de Ransbeek 310, 1120 Brussels, Belgium*

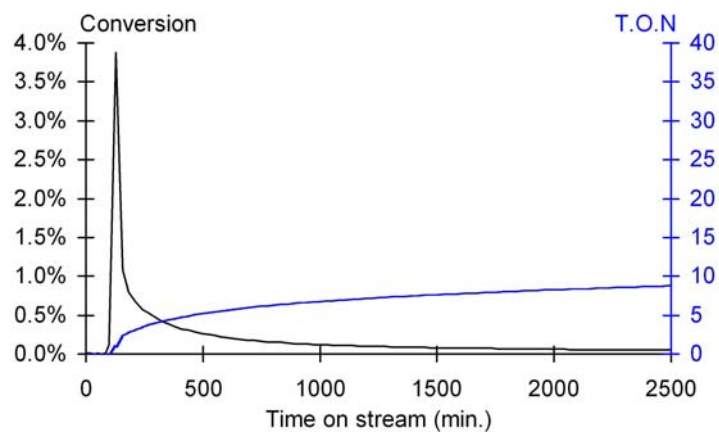


Figure S1. Conversion as a function of time (black line) and TON as a function of time (blue line).

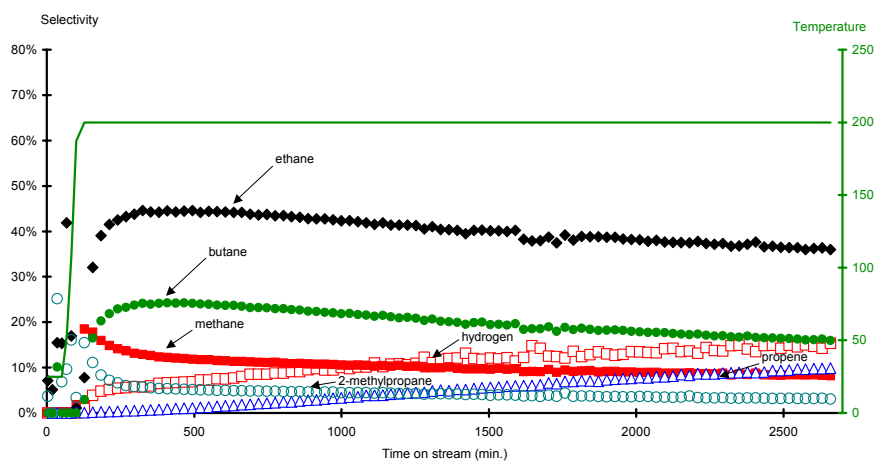


Figure S2. Selectivities as a function of time.

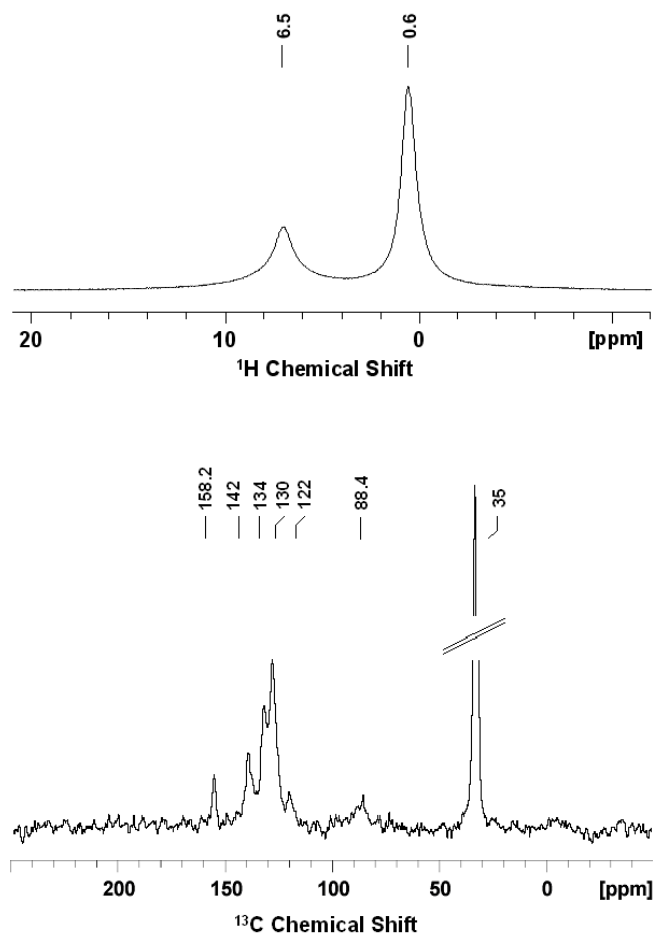


Figure S3. ^1H MAS solid-state NMR (top) and ^{13}C CP-MAS solid-state NMR (bottom) of **2**/ SiO_2 -[700] (recorded under MAS of 10 kHz).

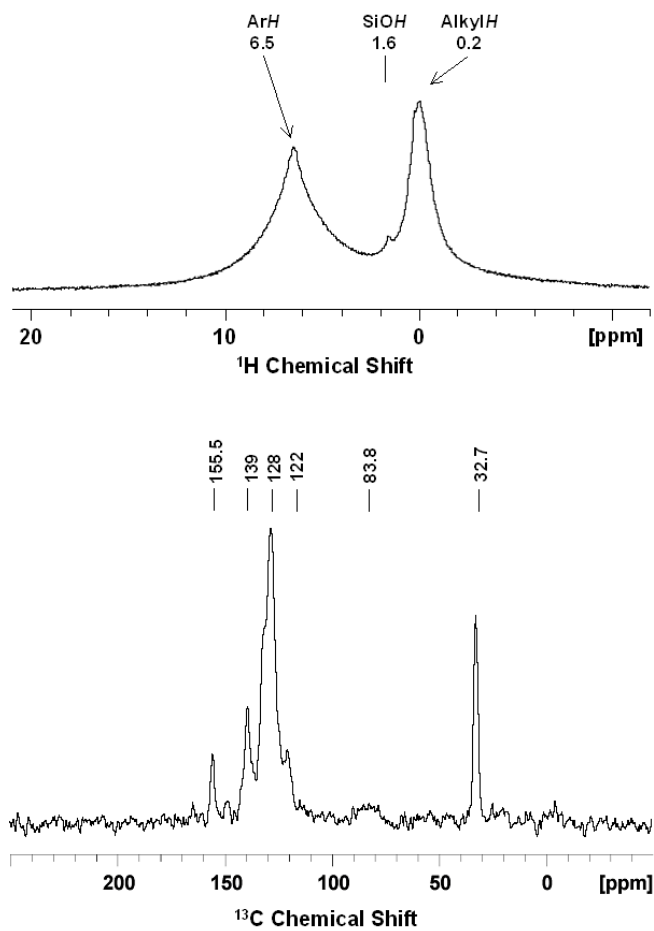


Figure S4. ^1H MAS solid-state NMR (top) and ^{13}C CP-MAS solid-state NMR (bottom) of $3/\text{SiO}_2\text{-}[700]$ (recorded under MAS of 10 kHz).