Supplementary Figures.

Figure S1.



Figure S1 Schematic of the TVA apparatus.

Figure S2.



Figure S2: N_2 physisorption isotherms as function of temperature for mordenite samples coked with methanol for 300 minutes on stream.

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Figure S3: ¹³C cross-polarisation (¹H) MAS NMR spectra of mordenite samples coked with methanol for 300 minutes as a function of reaction temperature (a) 150 °C, (b) 250 °C, (c) 300 °C and (d) 500 °C.

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Figure S4.



Figure S4: First derivative TGA profile under air of mordenite samples coked with methanol for 300 minutes on stream at different reaction temperatures.

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Figure S5: N_2 physisorption isotherms as function of time on stream for mordenite samples coked with methanol at 300 °C.

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