Supporting information for

Mechanism of SAPO-34 catalyst deactivation in the course of MTO conversion in slurry reactor

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Fig. S1. XRD pattern of SAPO-34 catalyst.

Fig. S2. SEM image of SAPO-34 catalyst.
Fig. S3. Nitrogen adsorption/desorption isotherm of SAPO-34 catalyst.

Fig. S4. TPD NH$_3$ profile of SAPO-34 catalyst.
Fig. S5. Kinetics of “light” and “heavy” coke deposition under SLR (a) and FBR (b) conditions.

Fig. S6. FTIR spectra of DTBP adsorbed over fresh SAPO-34 sample (a), over SiO₂ modified sample (b). Bands at 1615 and 1530 cm⁻¹ correspond to protonated DTBP.