Supplementary Information

Disordered medium-pore zeolite PST-24 as an efficient low-temperature isobutanol dehydration catalyst

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Fig. S1 $^1$H-$^{13}$C CP MAS NMR spectra of (a) H-ZSM-5(50), (b) H-ferrierite(33) and (c) H-PST-24(47) after isobutanol dehydration at 250 °C and 24.8 h$^{-1}$ isobutanol WHSV with feed stream containing 9% H$_2$O vapor for 30 h.
**Fig. S2** IR spectra of isobutanol adsorbed on (a) H-ZSM-5(50), (b) H-ferrierite(33) and (c) H-PST-24(47) at room temperature for 30 min and then desorbed under vacuum to a residual pressure of $10^{-3}$ Torr at temperatures up to 300 °C with an interval of 5 °C and a holding time of 10 min at each temperature.