

Supporting Information

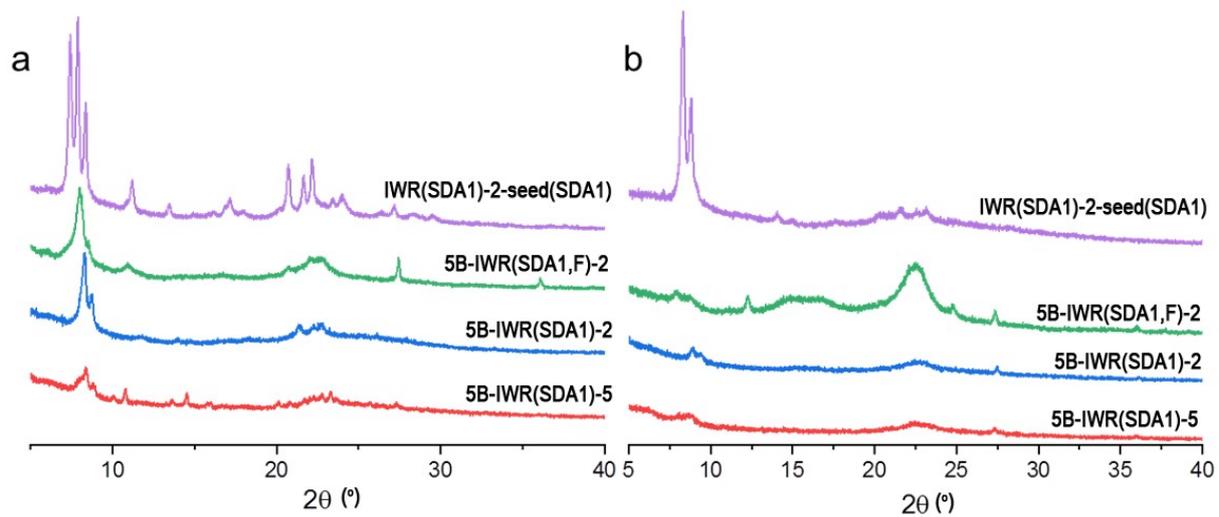
**ADOR zeolite with 12×8×8-ring pores derived from IWR germanosilicate**

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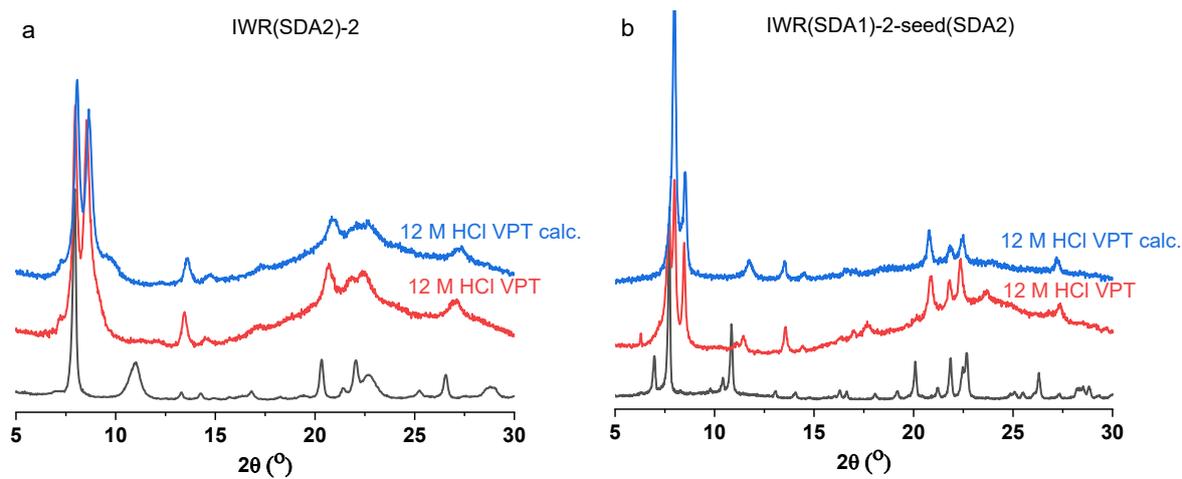
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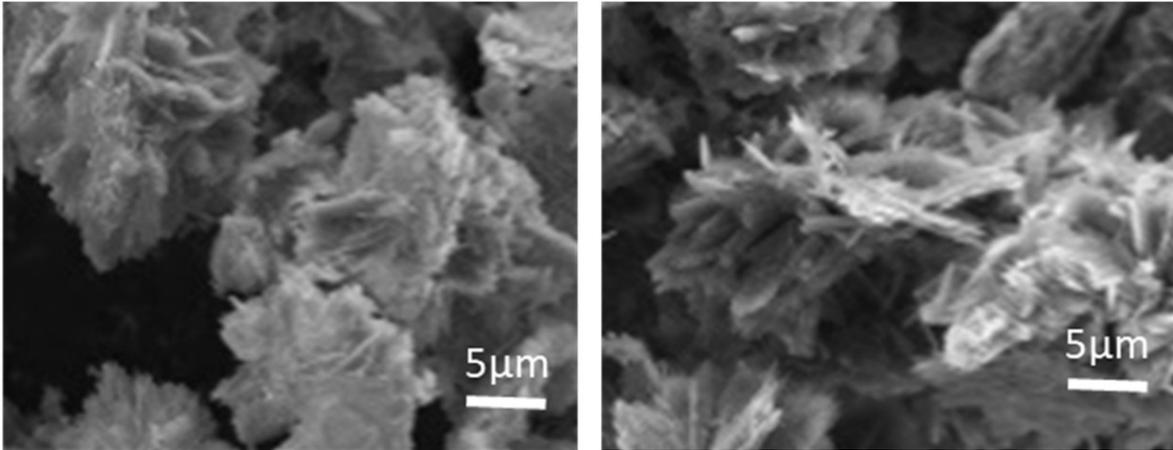
<sup>†</sup> These authors contributed equally



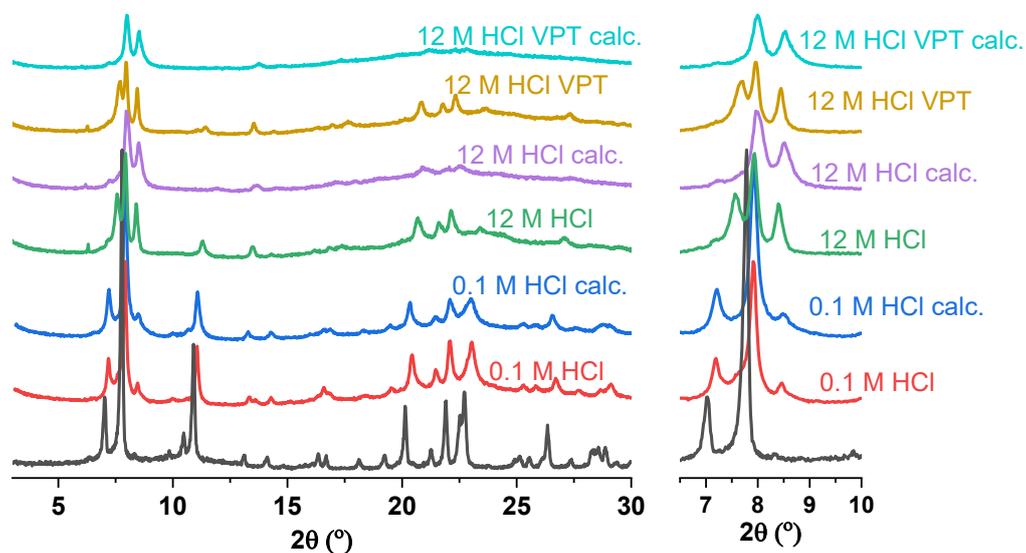
**Fig S1.** XRD patterns of IWR samples treated with 12 M HCl solution (a) and subsequently calcined (b).



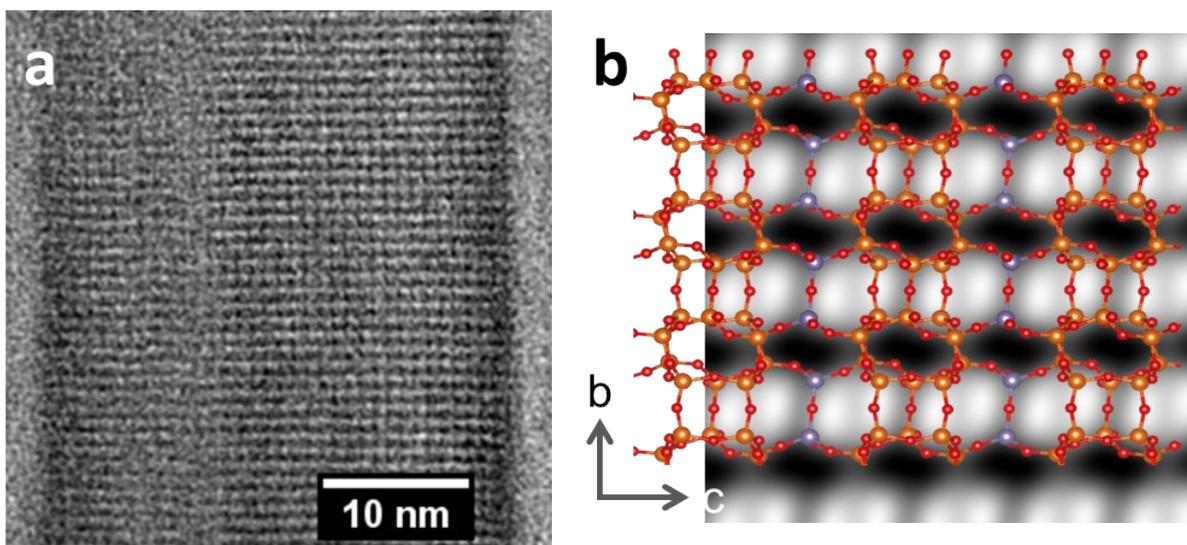
**Fig. S2** XRD patterns of IWR zeolite (black) treated with the vapours of 12 M HCl under VPT conditions before and after calcination: (a) IWR(SDA2)-2 and (b) IWR(SDA1)-seed(SDA2).



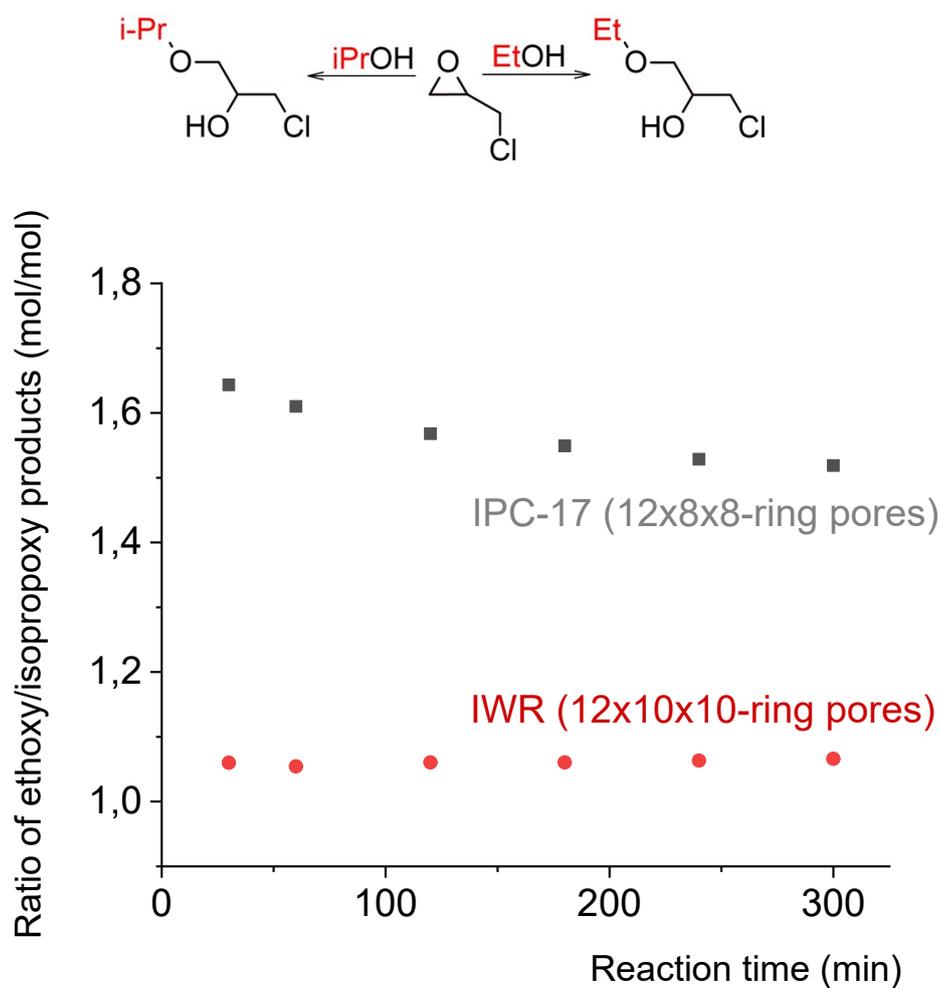
**Fig. S3** SEM images of IWR(SDA1)-2-seed(SDA2) zeolite sample (left) and the daughter IPC-17 zeolite (right).



**Fig. S4.** XRD patterns of IWR(SDA1)-2-seed(SDA2) sample (black) treated with 0.1 M HCl, 12 M HCl, and 12 M HCl vapours under VPT conditions before and after calcination. The incomplete disassembly in 0.1 M HCl is revealed by the small right-shift of (011) diffraction line at 7° 2θ for + 0.2° 2θ.



**Fig. S5.** ABSF filtered ABF-STEM image of IPC-17 zeolite corresponding to  $b \times c$  projection (a) and overlay of the respective P2 symmetry-averaged ADF-STEM image with the crystallographic model of IPC-17 zeolite in the same projection (b).



**Fig. S6.** Epichlorohydrin ring-opening with alcohols under study (top). Molar ratio of the epichlorohydrin ring-opening products formed over parent IWR zeolite and daughter IPC-17 zeolite when using equimolar mixture of ethanol and *iso*-propanol (bottom).