Supplementary Information for:

One-step synthesis of a thioester chiral PMO and its use as catalyst in asymmetric oxidation reactions

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Rafael A. García, Victoria Morales y Teresa Garcés

Supplementary information
Figure SI-1. TEM images recorded for sample S1-40 which corresponds to the one-pot thioester chiral PMOs.
Figure SI-2. X-ray diffraction patterns achieved for MPTMS materials functionalized with different organic loadings.
**Figure SI-3.** TEM images recorded for sample MP30 containing 30% mole of thiol groups referred to silica.
Figure SI-4. $^{13}$C NMR spectra recorded for sample MP30 containing 30% mole of thiol groups referred to silica.