

Supporting Information

**Sulfide Organic Polymers as novel and efficient metal-free
heterogeneous Lewis acid catalysts for esterification reactions**

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FT-IR spectroscopic data of SOP-type materials

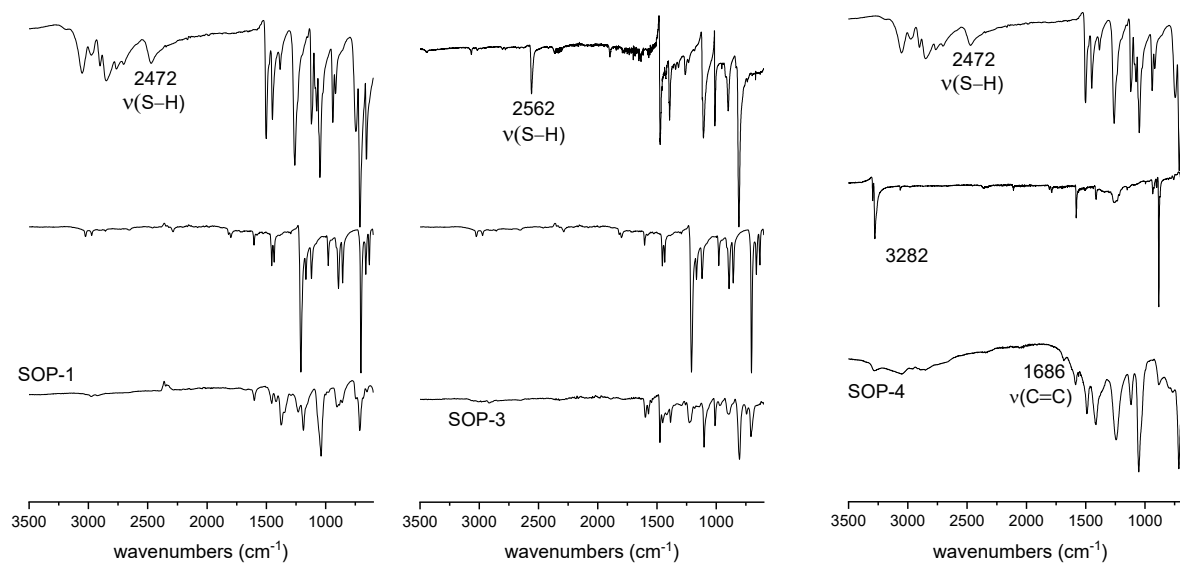


Figure S1. FTIR spectra of SOP-1, SOP-3 and SOP-4.

Solid-state CP-MAS ^{13}C NMR spectroscopic data of SOP-type materials

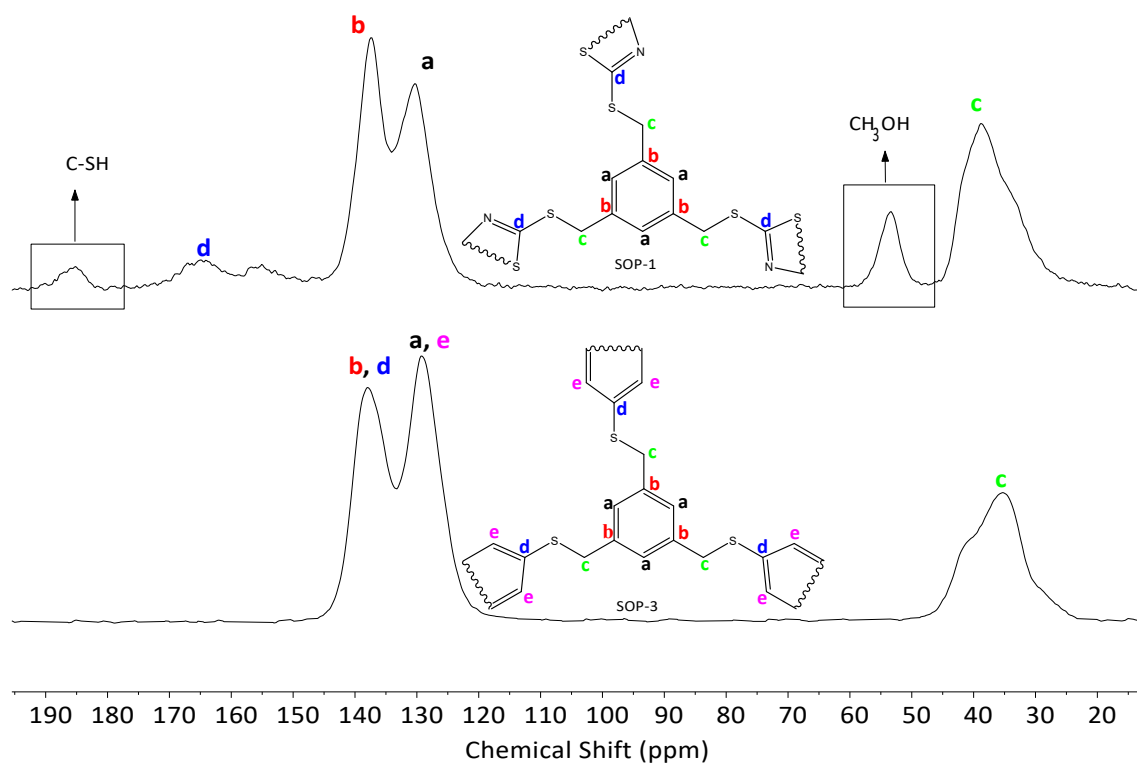


Figure S2. Solid-state CP-MAS ^{13}C NMR spectroscopy of SOP-1 and SOP-3.

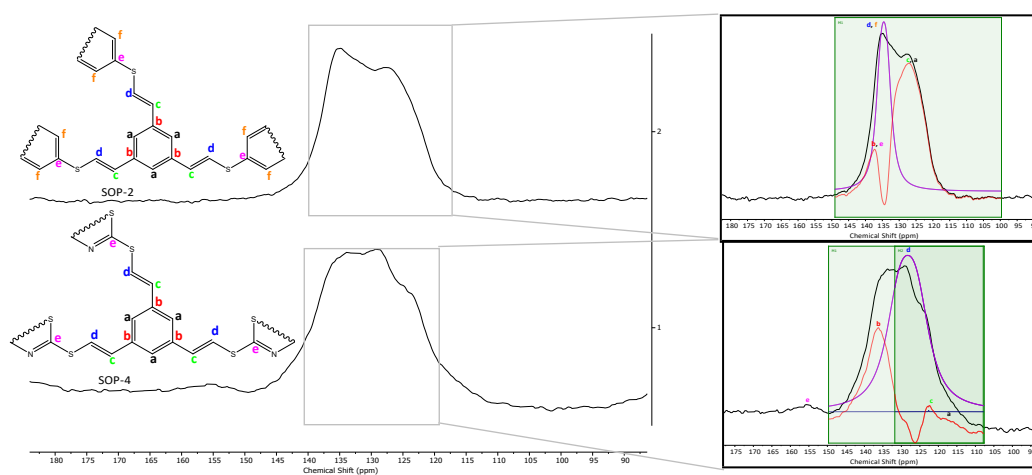


Figure S3. Solid-state CP-MAS ^{13}C NMR spectra of SOP-2 and SOP-4.

Elemental analysis of SOP-type materials

Table S1. Elemental analysis of SOP-1 and recovered SOP-1 after reaction.

Catalyst	C (wt%)	S(wt%)	N(wt%)	H(wt%)
SOP-1	41.0	37.7	10.9	2.6
Recovered SOP-1	43.7	37.5	10.8	2.9

Stability analysis after catalytic uses

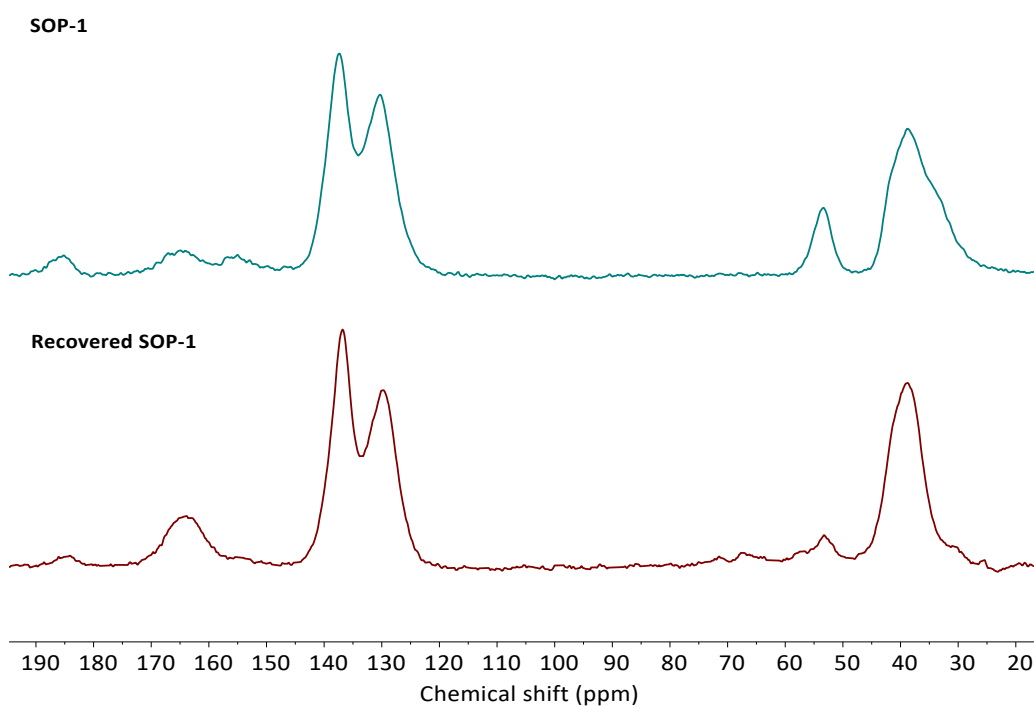


Figure S4. Solid-state CP-MAS ¹³C NMR spectra of as-synthesized SOP-1 and recovered SOP-1 after reaction.

Potentiometric acid base titration curves of SOP-type materials

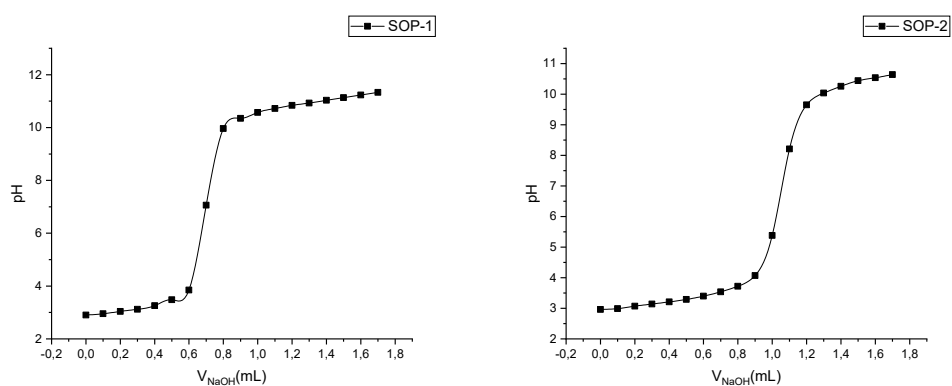


Figure S5. Potentiometric acid base titration experiments of SOP-1 and SOP-2.

FT-IR spectroscopic data of SOP-type materials after adsorption of butyric acid

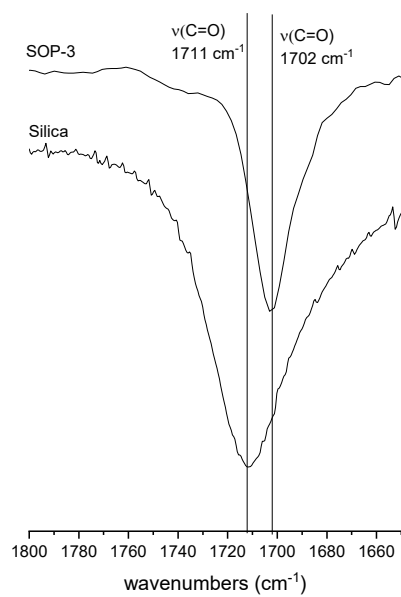


Figure S6. FTIR spectra of butyric acid supported ion SOP-3 and silica.