Electronic supplementary information

Separation of phenols from model oils with quaternary ammonium salts *via* forming deep eutectic solvents

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Content:

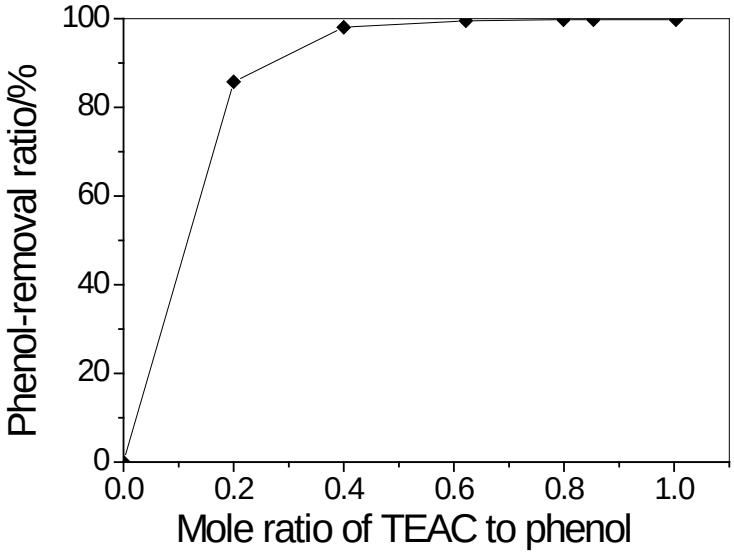

Fig. S1 The phenol-removal efficiency at different mole ratios of TEAC to phenol (initial phenol contents, 200.6 g/L; temperature, 303.2 K; extraction time, 30 min).

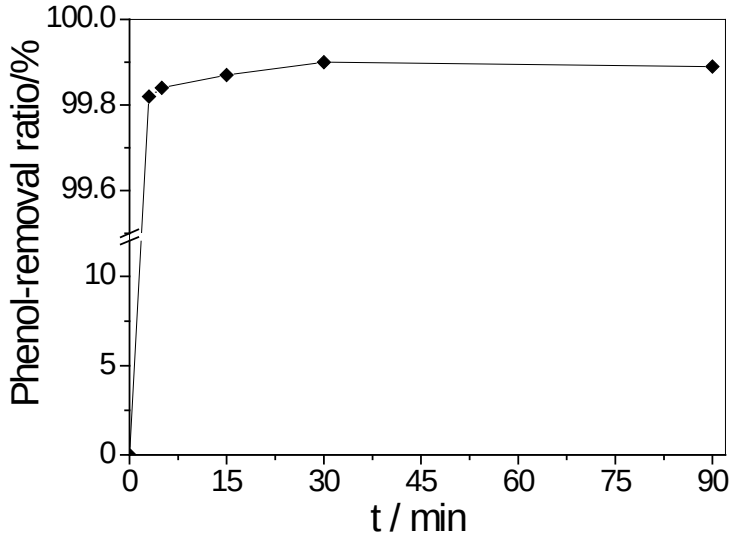

Fig. S2 The phenol-removal efficiency versus extraction time (initial phenol content, 200.6 g/L; temperature, 303.2 K; mole ratio of TEAC to phenol, 0.8).

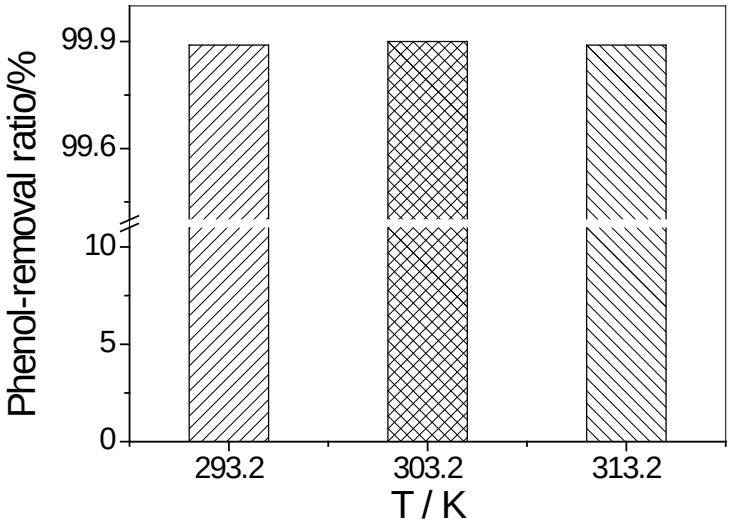

Fig. S3 The phenol-removal efficiency versus extraction temperature (initial phenol contents, 200.6 g/L; mole ratio of TEAC to phenol, 0.8; extraction time, 30min).

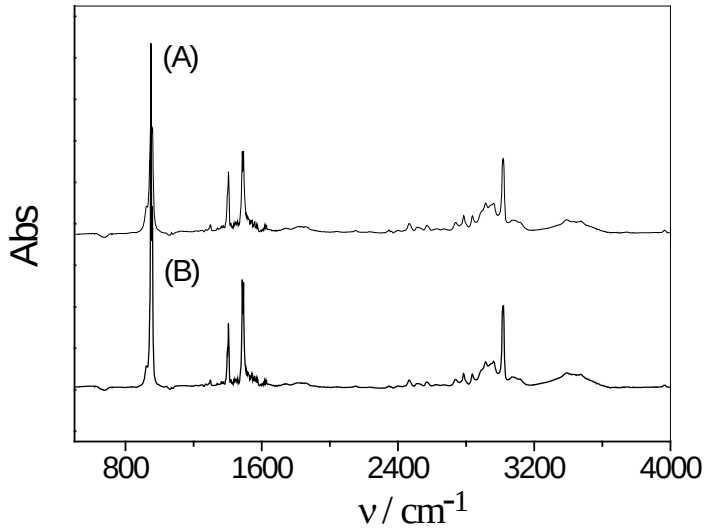

Fig. S4 FT-IR spectra of (A) fresh TMAC, (B) regenerated TMAC.

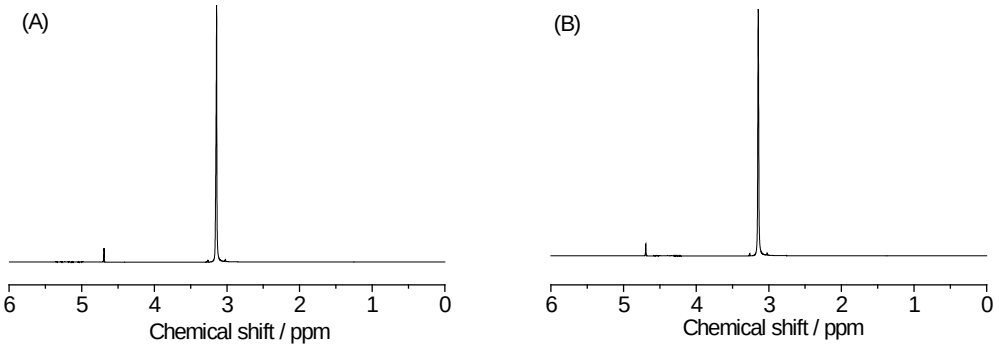

Fig. S5 ^{1}H NMR spectra (600 MHz, rt, D_2O) of (A) fresh TMAC, (B) regenerated TMAC.

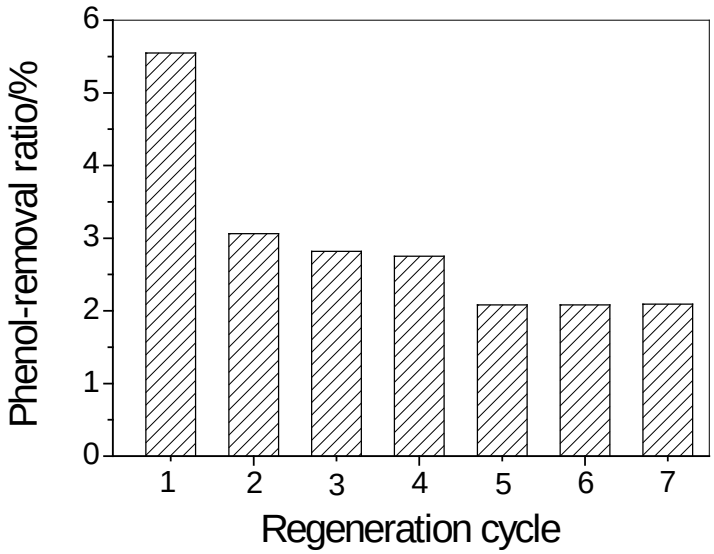

Fig. S6 The phenol-removal efficiency versus regeneration cycle (initial phenol contents, 200.6 g/L; temperature, 303.2 K; mole ratio of TEAC to phenol, 1; extraction time, 30 min).