Supporting Information

Boric acid based ternary deep eutectic solvent for extraction and oxidative desulfurization of diesel

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The solubility of DES in oil was determined by FTIR and ¹H NMR of *n*-dodecane (solvent for model oil) as follows.



Fig. S1 FTIR spectra of pure *n*-dodecane and *n*-dodecane after mixing with DES



Fig. S2 ¹H NMR of pure *n*-dodecane and *n*-dodecane after mixing with DES



Fig. S3. (a), (b) Alternative structures of $(HO)_2BOOH + H_2O + ChCl + PEG$.



Fig. S4. Mass spectra of DBT and its oxidation product