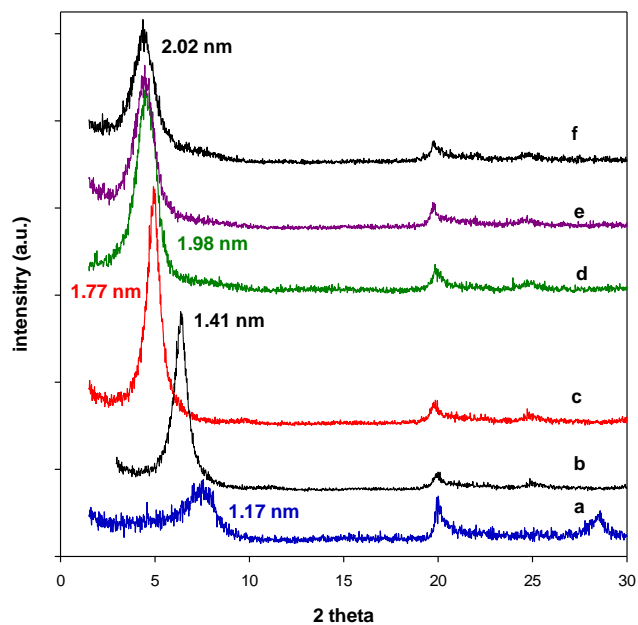
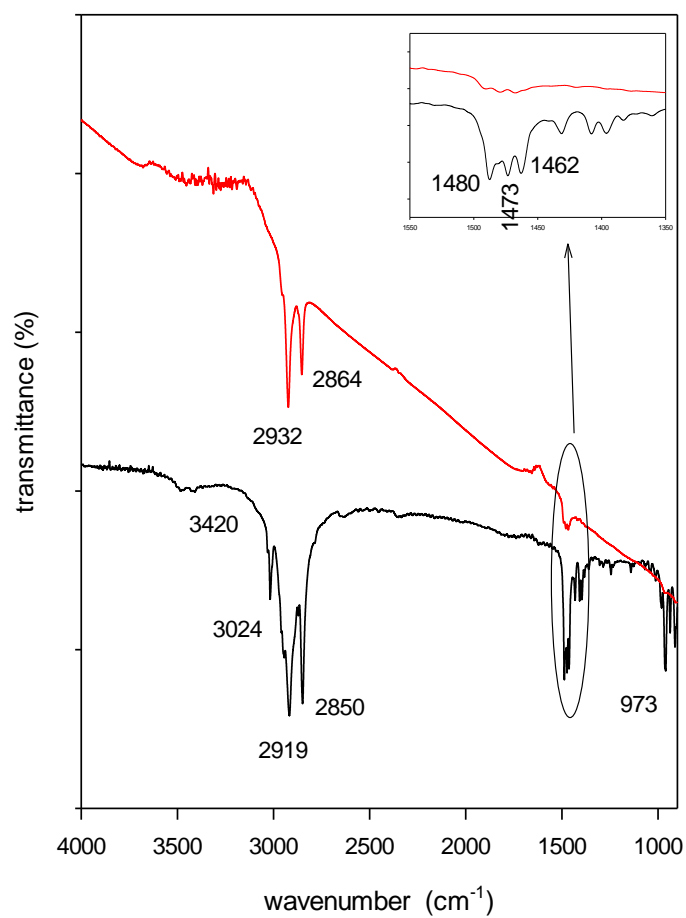


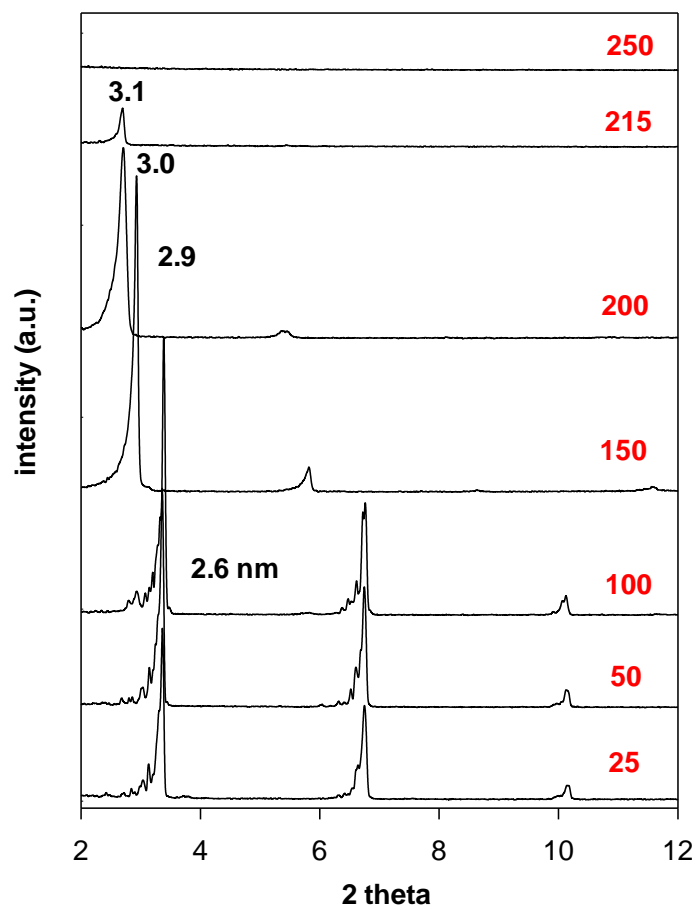
Supplementary information of submitted manuscript: “ Eosin Removal of Cetyl trimethylammonium-Cloisites: Influence of the surfactant solution type and regeneration properties”



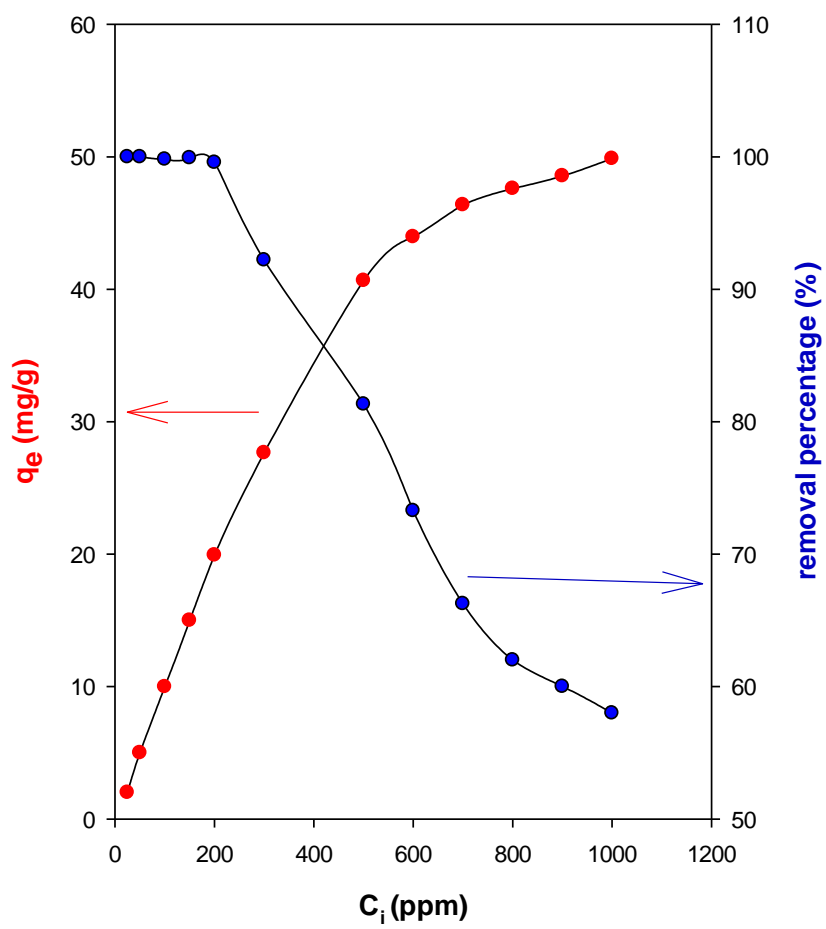
Supplementary material 1. Powder XRD patterns of (a) cloisite clay exchanged with C16Cl solution using different concentrations (b) 0.20 mM, (c) 0.40 mM; (d) 1.20 mM, (e) 1.60 mM, and (f) 3.20 mM.



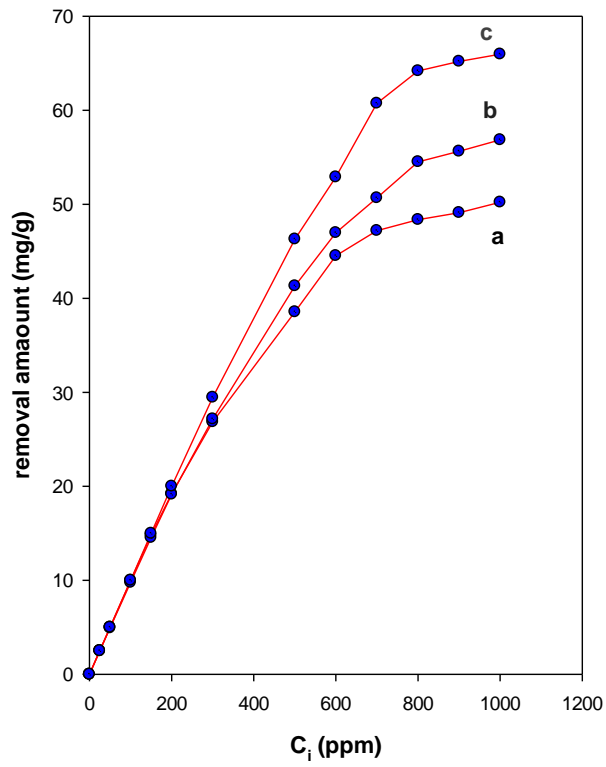
Supplementary material 2. FTIR spectra of solid C16TMABr salt (black) and liquid C16TMABr (red)



Supplementary material 3. *in-situ* Powder XRD patterns of C16TMABr salt preheated at different temperatures (°C).



Supplementary material 4. Removal percentage (R%, red) and removal amount (q_e , blue) of C16Br-CN material.



Supplementary material 5. Eosin removal properties of C16Cl-CN at different temperatures

(a) 25 °C, (b) 35 °C, and (c) 50 °C.