Figure S1. Variation of basal distance (d_{001}) with the initial loading concentrations of C16TMAOH solution.
Figure S2: Deconvolution of $^{13}$C CP MAS peaks in the range of 25 ppm to 45 ppm for C16TMAbr salt and the OC materials.
Figure S3. DTA curves of (a) PG clay and organo-clays prepared from different solutions (b) C16TMABr, (c) C16TMACl, and (d) C16TMAOH solutions.
Figure S4. PXRD patterns of C16TMABr salt preheated at different temperatures (°C)
Figure S5. Evolution of removed amount (mg/g) and removal percentage (%) using C16BrPG-2.40 organo-clay.
Figure S6. Eosin removal properties of C16BrPG-2.40 organo-clay performed at different temperatures
Figure S7. The Van’t Hoff plot of eosin removal by C16BrPG-2.40 organo-clay at different temperatures.
Figure S8. Removal capacity of C16OHPG-2.40 preheated at different temperatures and using two $C_i$ values 200 mg/L (black) and 1000 mg/L (red).