The ¹H NMR spectra of the synthesized alkylammonium hydrosulfates were recorded with a 500 MHz Bruker spectrometer in DMSO-d₆ calibrated with tetramethylsilane (TMS) as the internal reference. The detailed ¹H NMR spectra of the synthesized alkylammonium hydrosulfates shown in Fig.1-6. TG curves of these alkylammonium hydrosulfates shown in Fig.7.

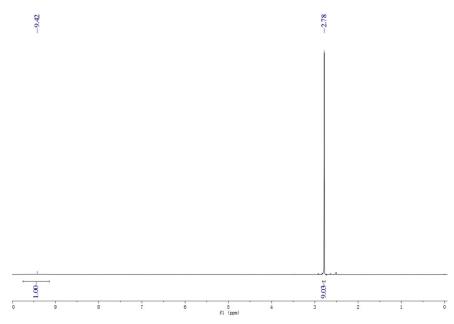


Fig.1 Trimethylammonium sulfate [Me₃NH][HSO₄]

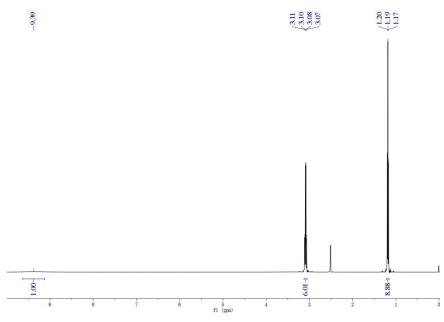


Fig. 2 Triethylammonium sulfate [Et₃NH][HSO₄]

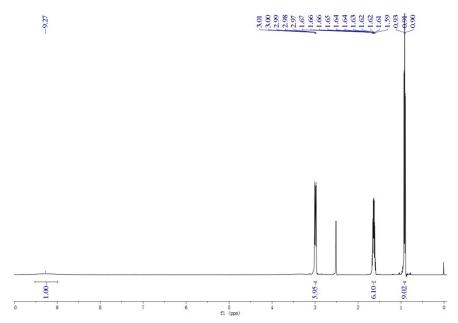


Fig.3 Tripropylammonium sulfate [Pr₃NH][HSO₄]

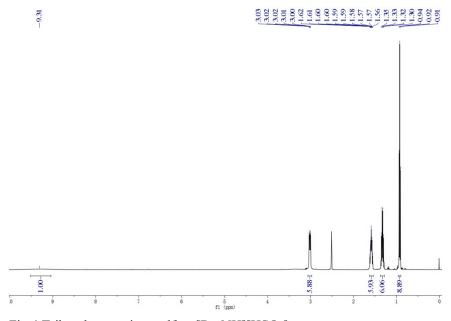
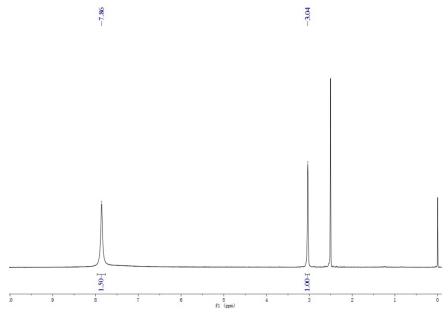
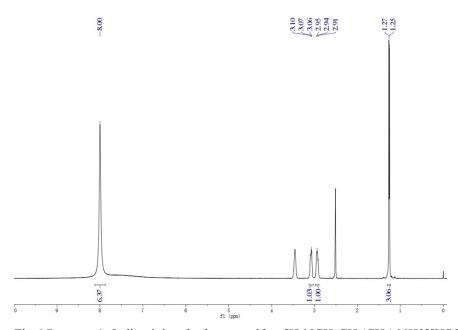


Fig.4 Tributylammonium sulfate [Bu₃NH][HSO₄]



 $Fig. 5\ Ethane-1, 2-diaminium\ hydrogen\ sulfate\ [H_3NCH_2CH_2NH_3][HSO_4]_2$



 $Fig. 6\ Propane-1,\ 2-diaminium\ hydrogen\ sulfate\ [H_3NCH_2CH\ (CH_3)\ NH3][HSO_4]_2$

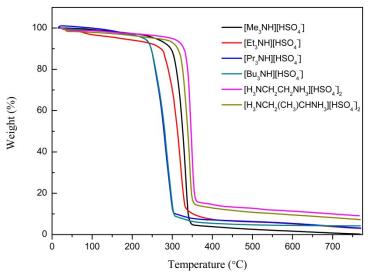


Fig.7 TG curves of these alkylammonium hydrosulfates