

The ^1H NMR and ^{13}C NMR spectra of synthesized organosulfate standards are shown in Figure S1-S8 below. These ^1H NMR and ^{13}C NMR spectra were recorded on a Bruker Advance-III 400 MHz spectrometer at 400 and 100 MHz, respectively using trimethylsilane (TMS) as an internal standard.

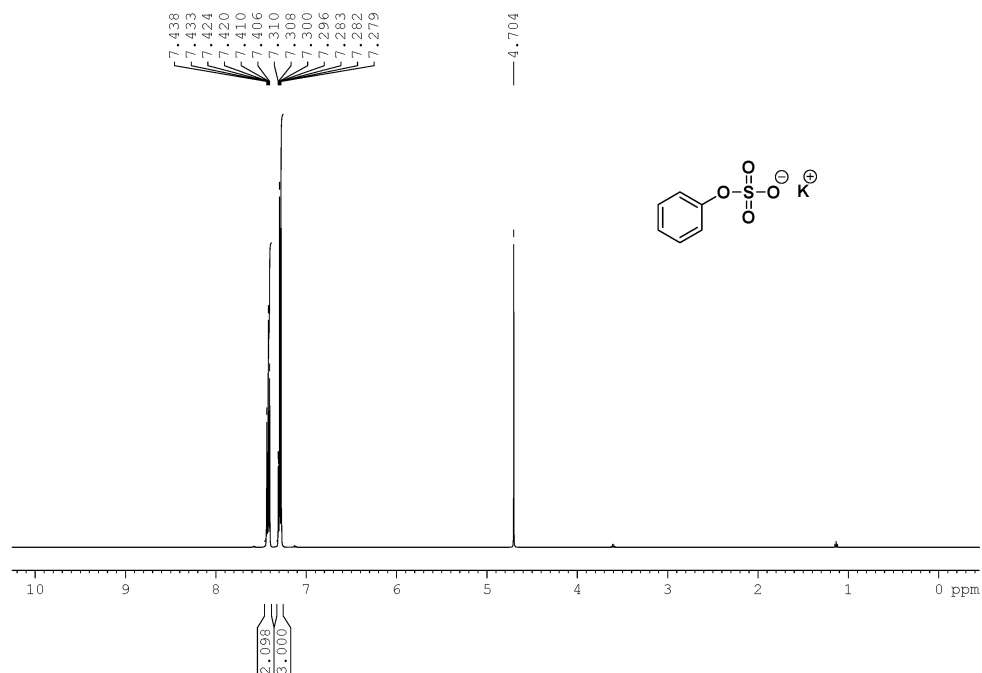


Figure S1. ^1H NMR spectrum of potassium phenyl sulfate in D_2O .

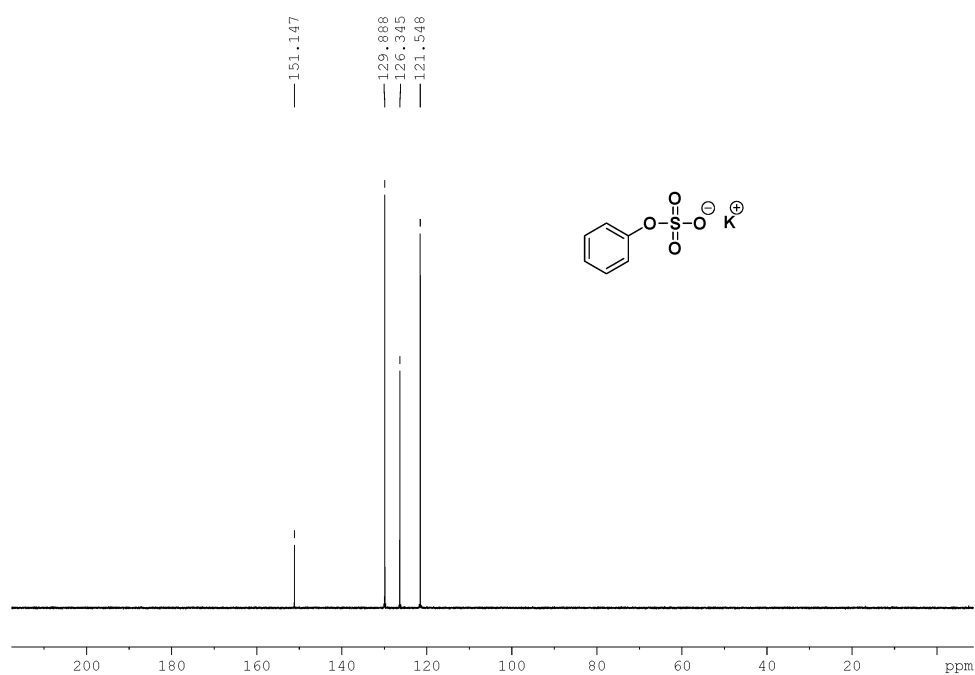


Figure S2. ^{13}C NMR spectrum of potassium phenyl sulfate in D_2O .

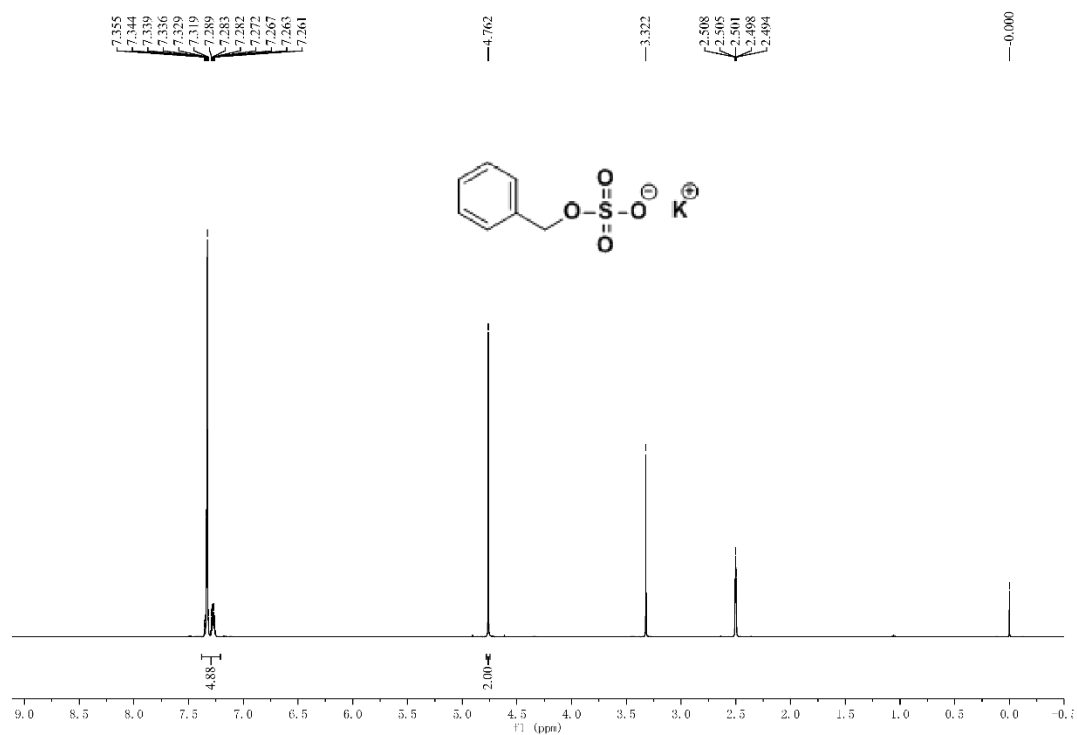


Figure S3. ^1H NMR spectrum of potassium benzyl sulfate in $\text{DMSO-}d_6$.

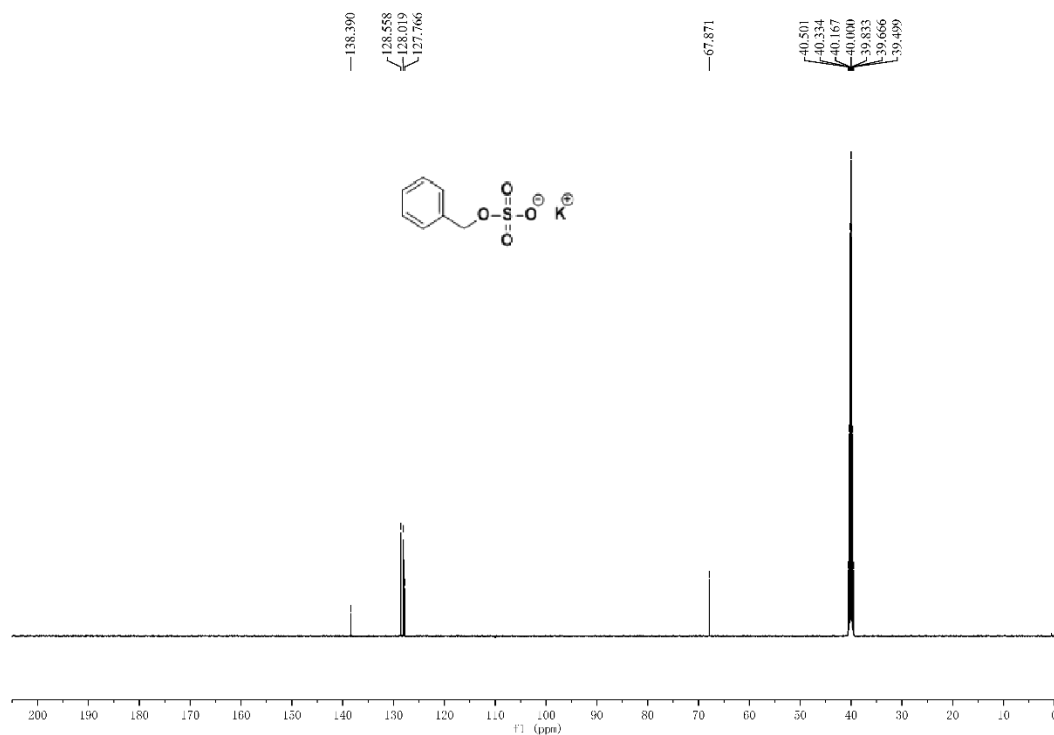


Figure S4. ¹³C NMR spectrum of potassium benzyl sulfate in DMSO-*d*₆.

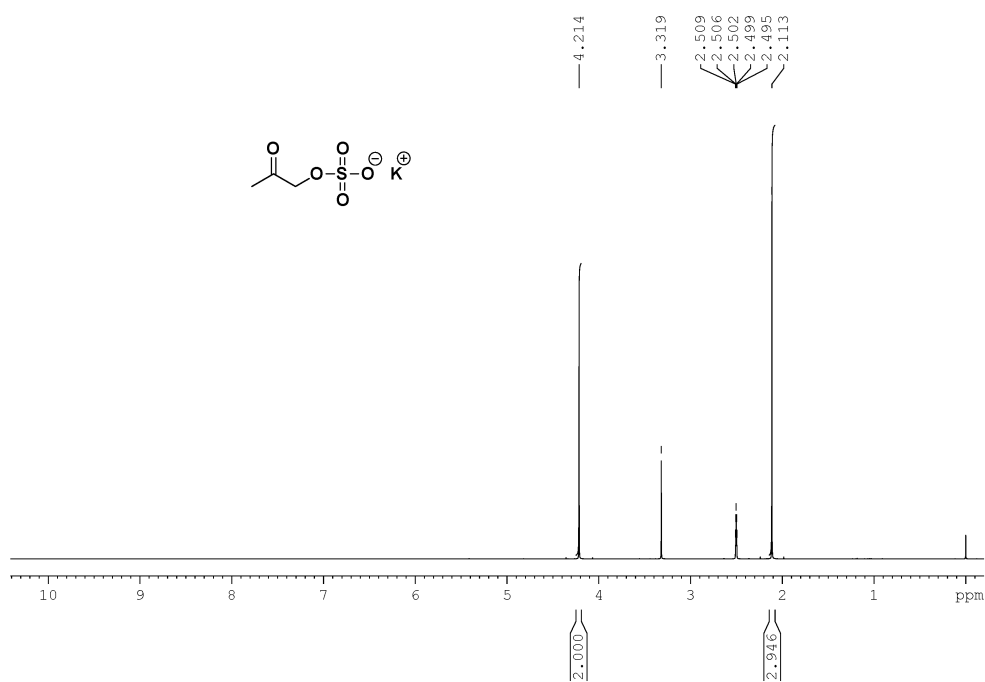


Figure S5. ¹H NMR spectrum of potassium hydroxyacetone sulfate in DMSO-*d*₆.

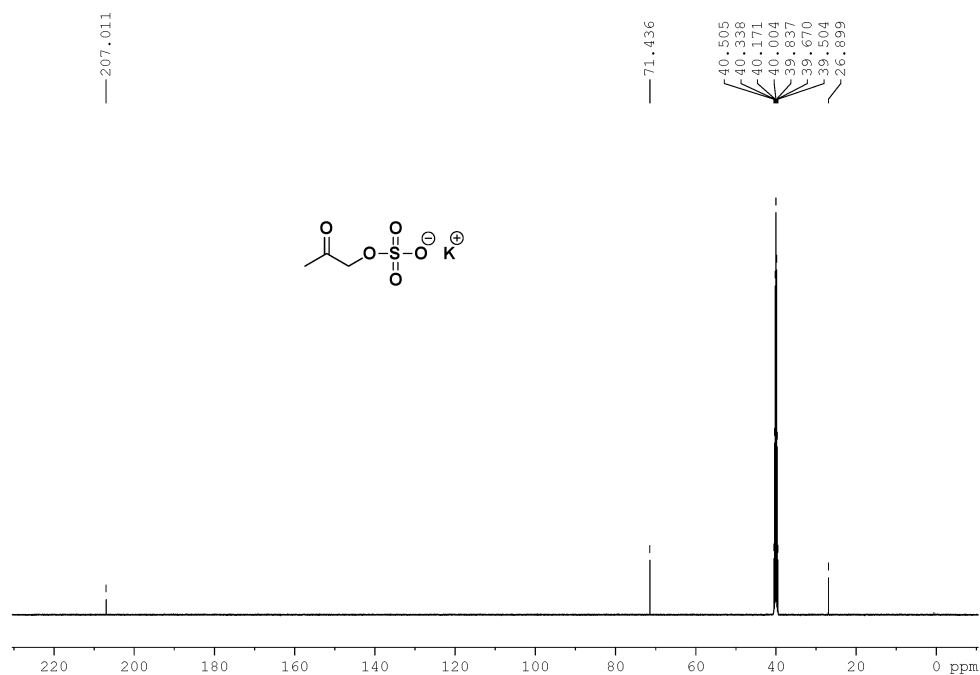


Figure S6. ^{13}C NMR spectrum of potassium hydroxyacetone sulfate in $\text{DMSO-}d_6$.

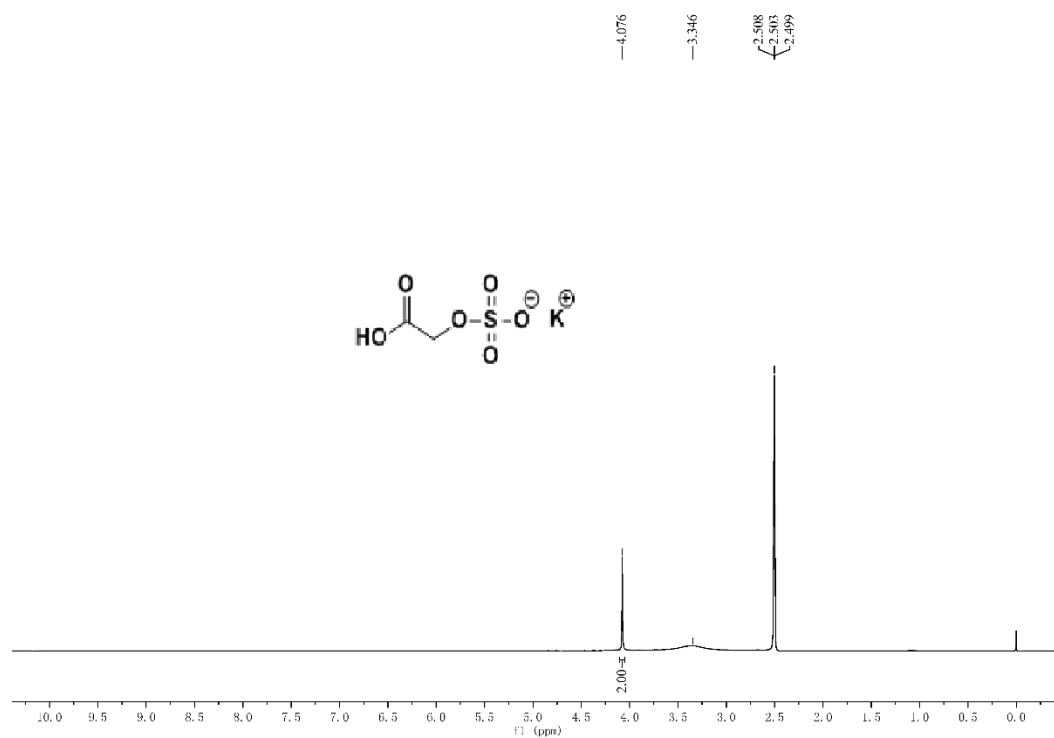


Figure S7. ^1H NMR spectrum of potassium glycolic acid sulfate in $\text{DMSO-}d_6$.

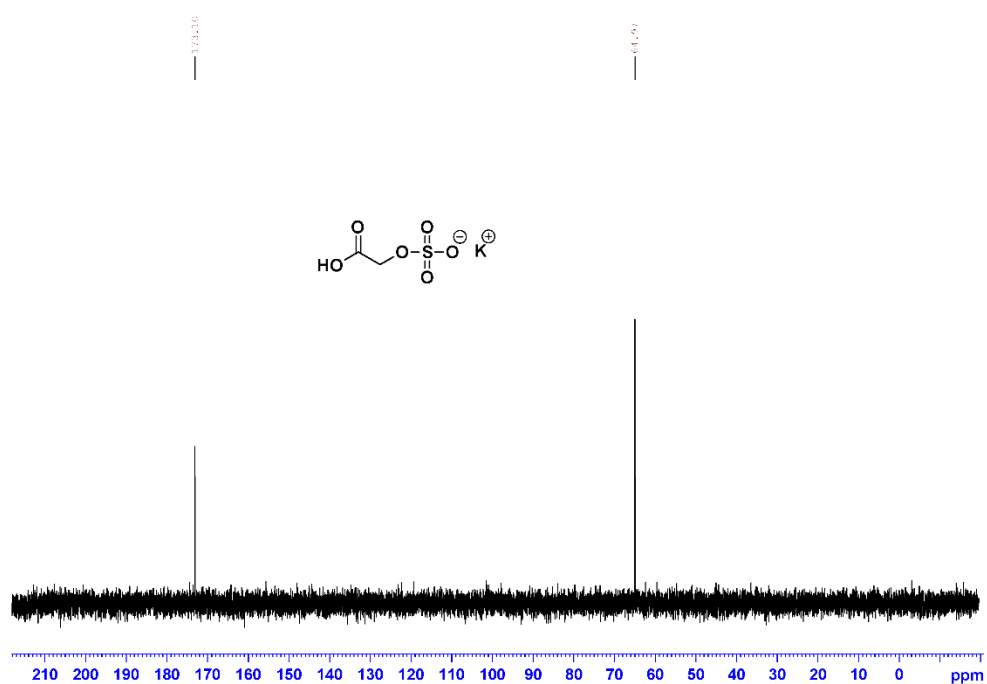


Figure S8. ^{13}C NMR spectrum of potassium glycolic acid sulfate in D_2O .