

Figure S1. A representative ¹H NMR spectra of DMP-Keto-R (R = Me) in CDCl₃.

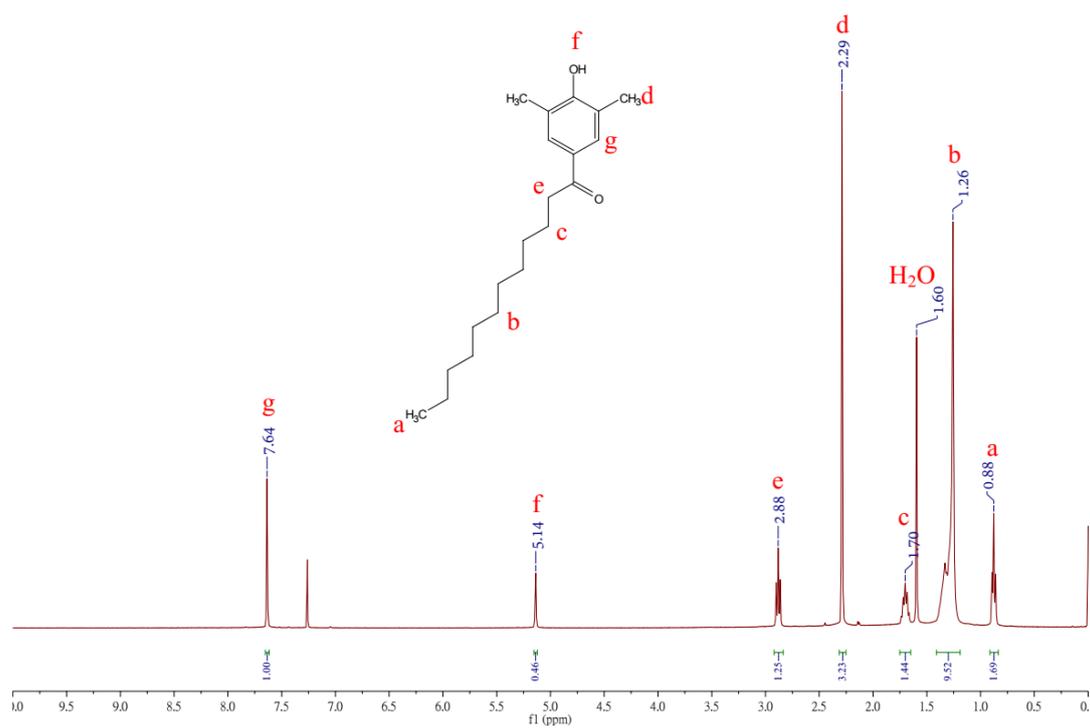


Figure S2. A representative ^1H NMR spectra of DMP-Keto-R (R = C11) in CDCl_3 .

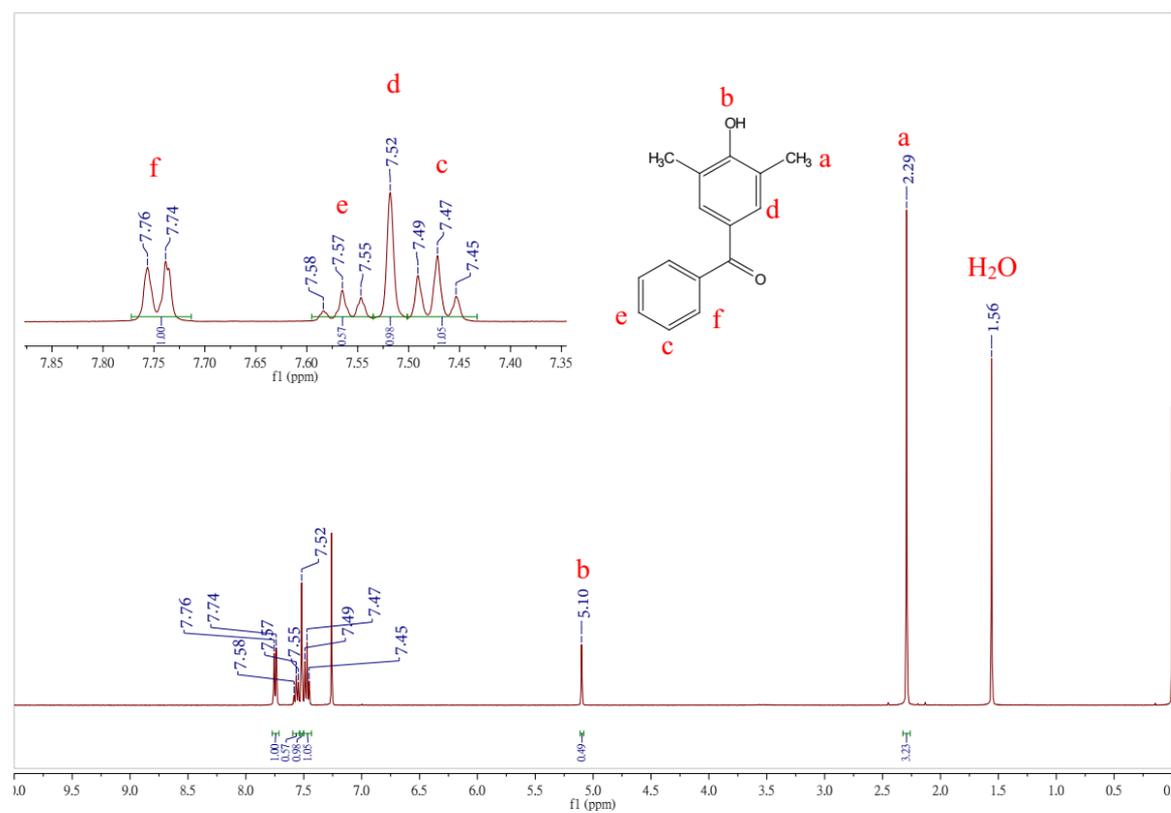


Figure S3. A representative ^1H NMR spectra of DMP-Keto-R (R = Ph) in CDCl_3 .

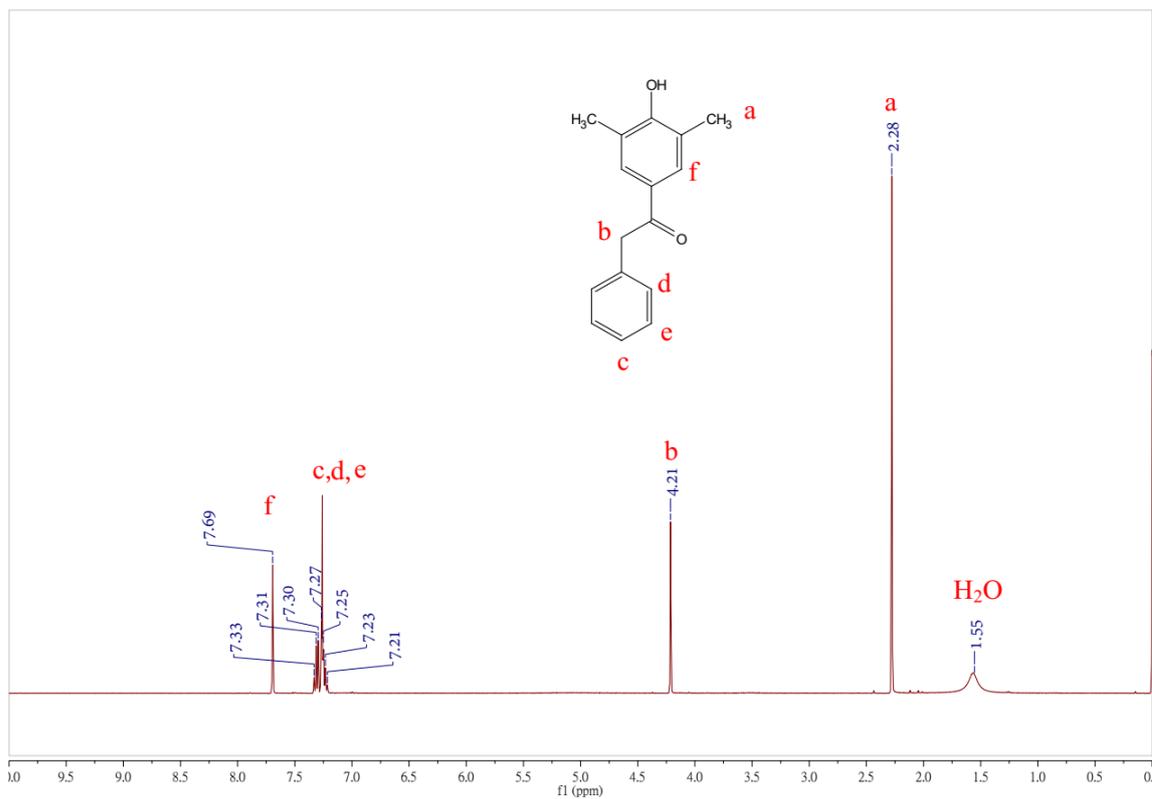


Figure S4. A representative ¹H NMR spectra of DMP-Keto-R (R = Bz) in CDCl₃.

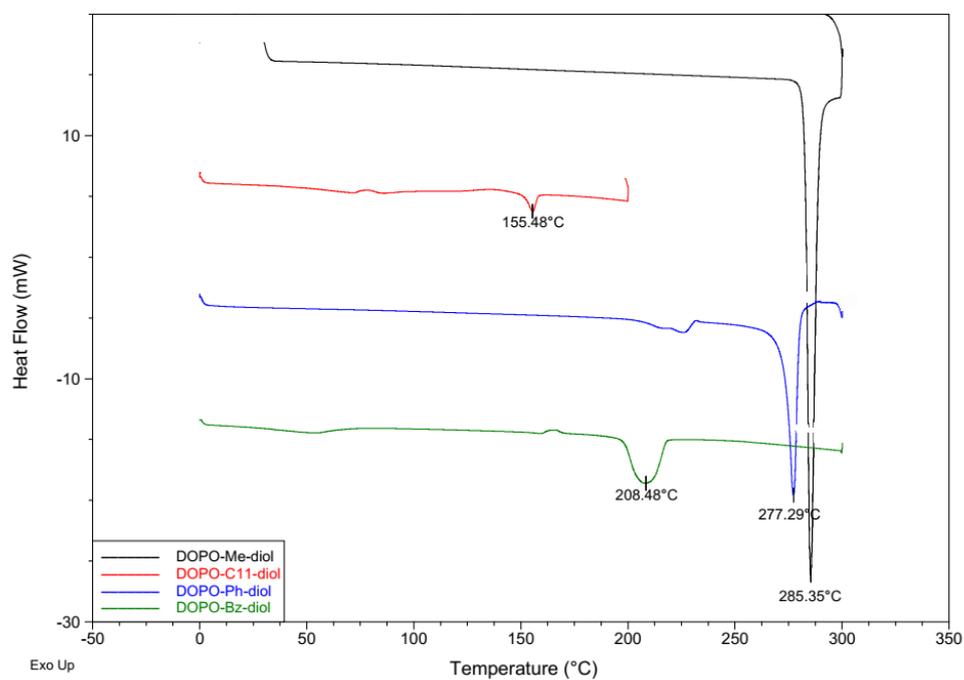


Figure S5. DSC heating curves of DOPO-R-diol.

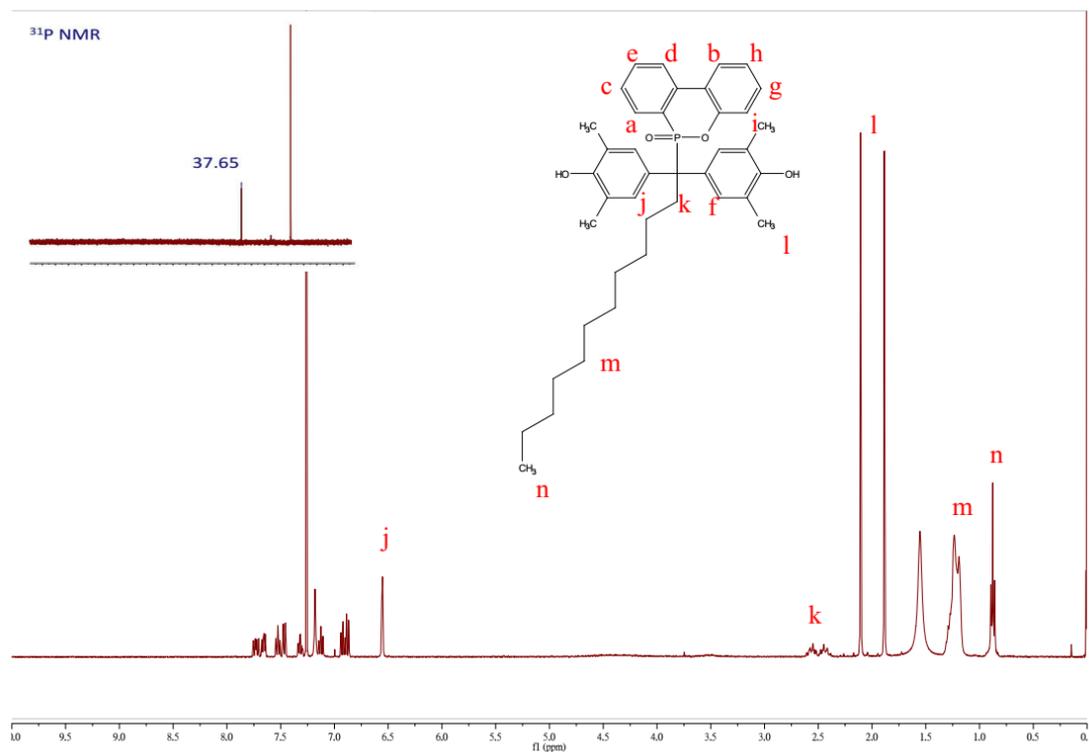


Figure S6. A representative ¹H NMR spectra of DOPO-R-diol (R = C11) in CDCl₃.

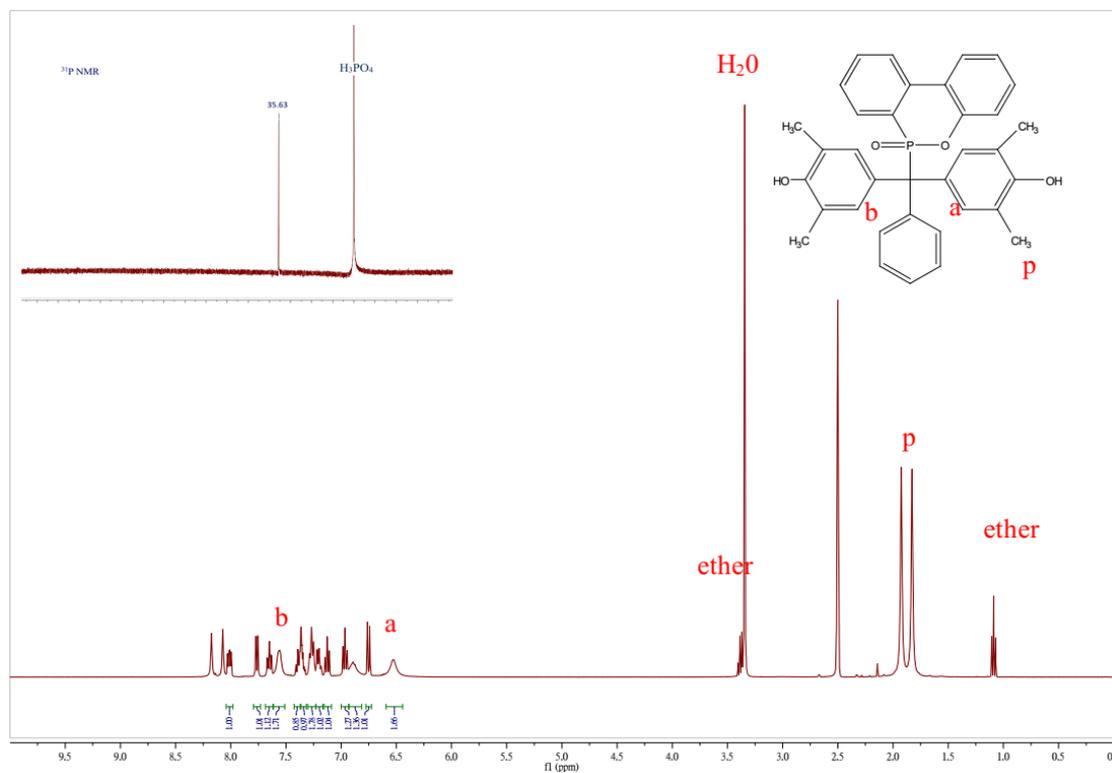


Figure S7. A representative ¹H NMR spectra of DOPO-R-diol (R = Ph) in DMSO-*d*₆.

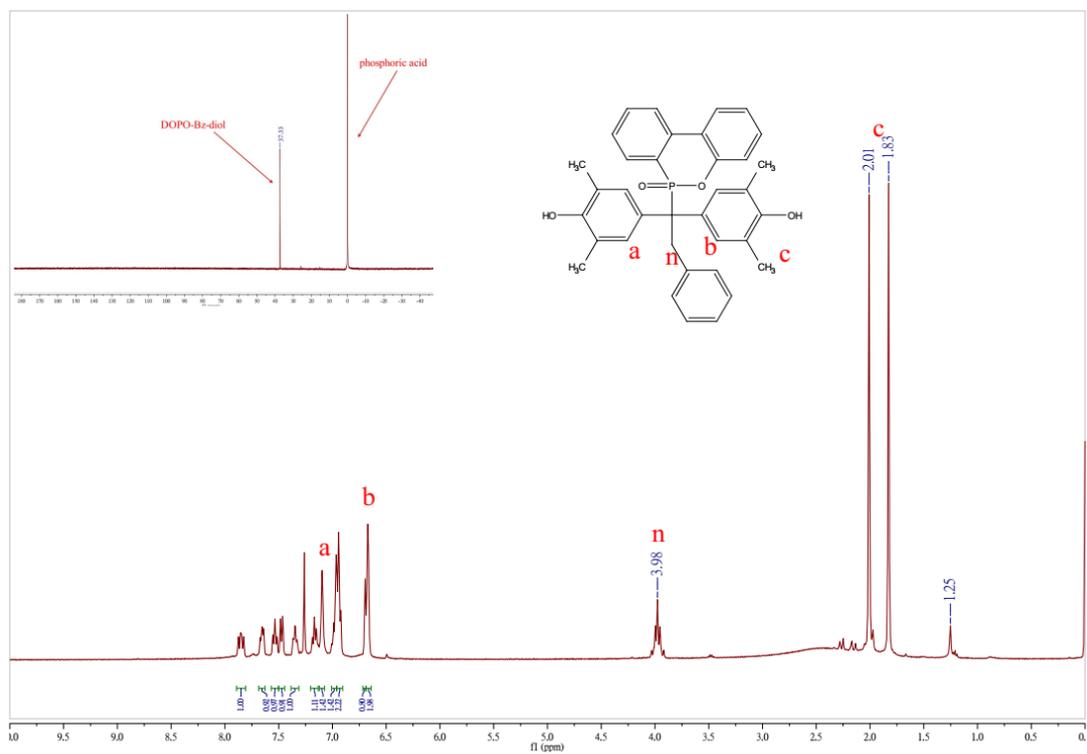


Figure S8. A representative ^1H NMR spectra of DOPO-R-diol (R = Bz) in CDCl_3 .

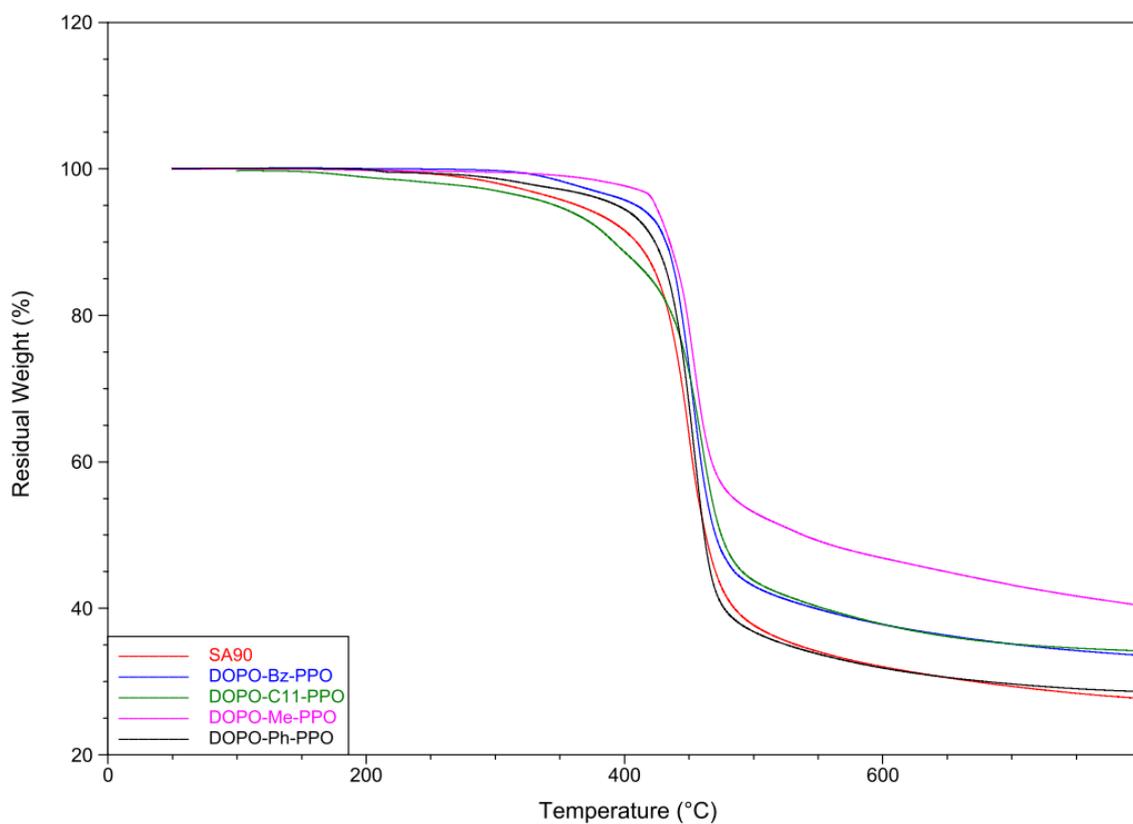


Figure S9. TGA thermograms of DOPO-R-PPOs in N_2

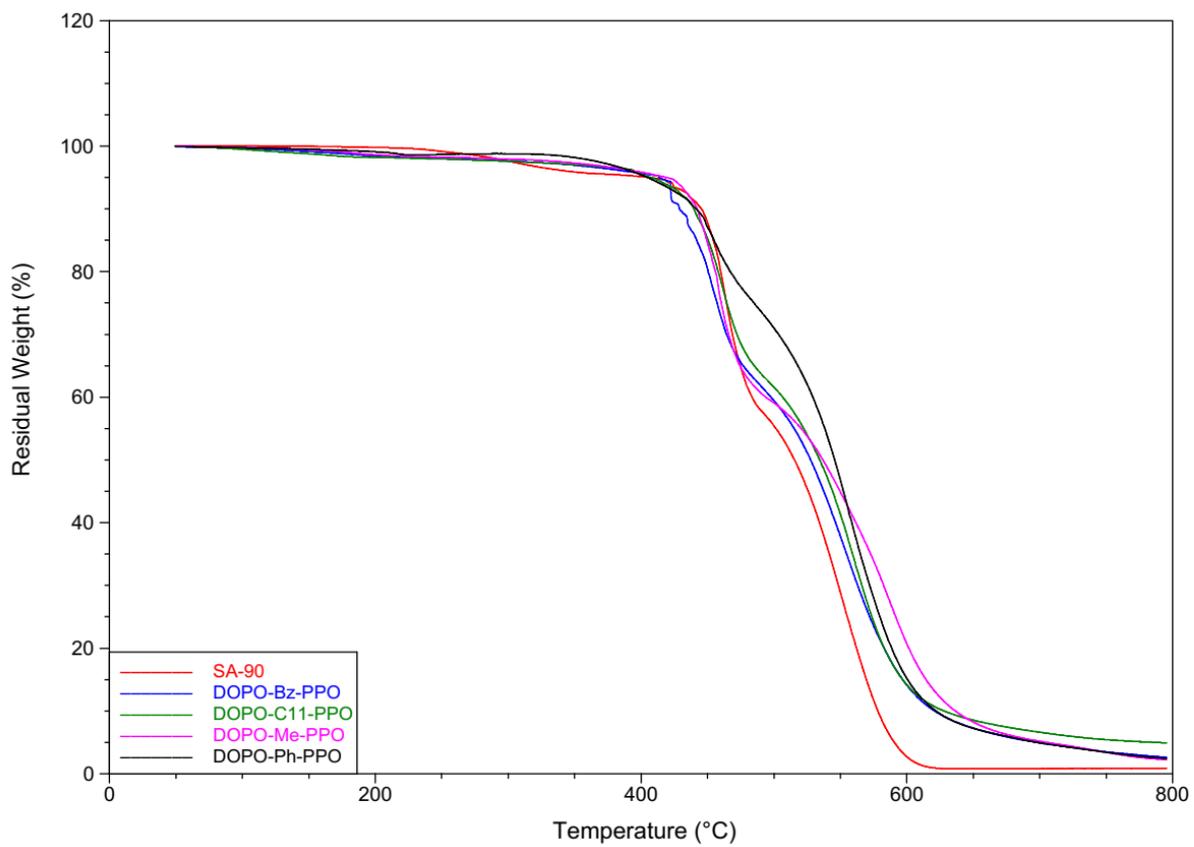


Figure S10. TGA thermograms of DOPO-R-PPOs in Air