

## Supplementary Information

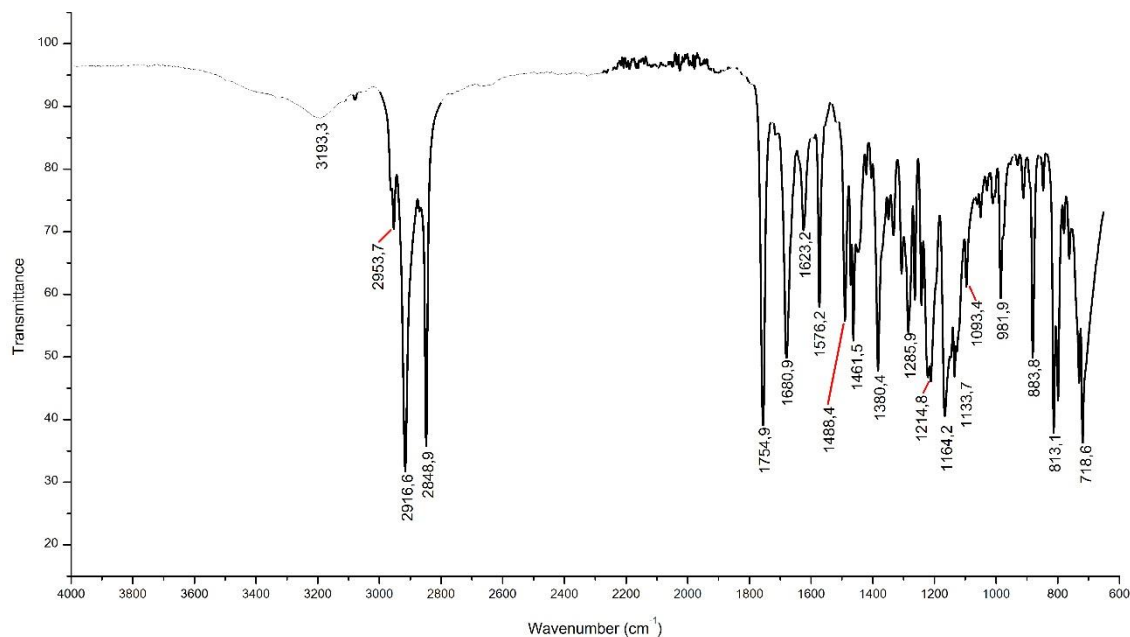
### Synthesis of New Phenolic-Schiff Base and Its Application as Antioxidant in Soybean Biodiesel and Corrosion Inhibitor in AISI 1020 Carbon Steel

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**Figure S1.** FTIR spectrum of intermediate ES.

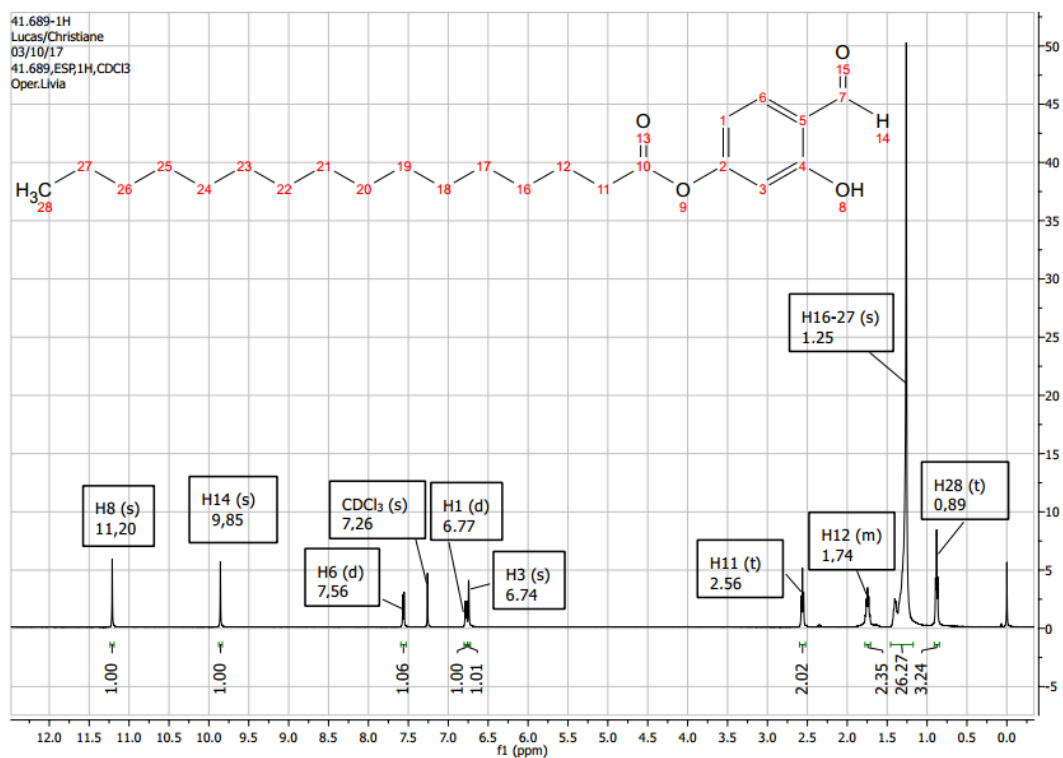


Figure S2. <sup>1</sup>H NMR spectrum (400 MHz, CDCl<sub>3</sub>) of intermediate ES.

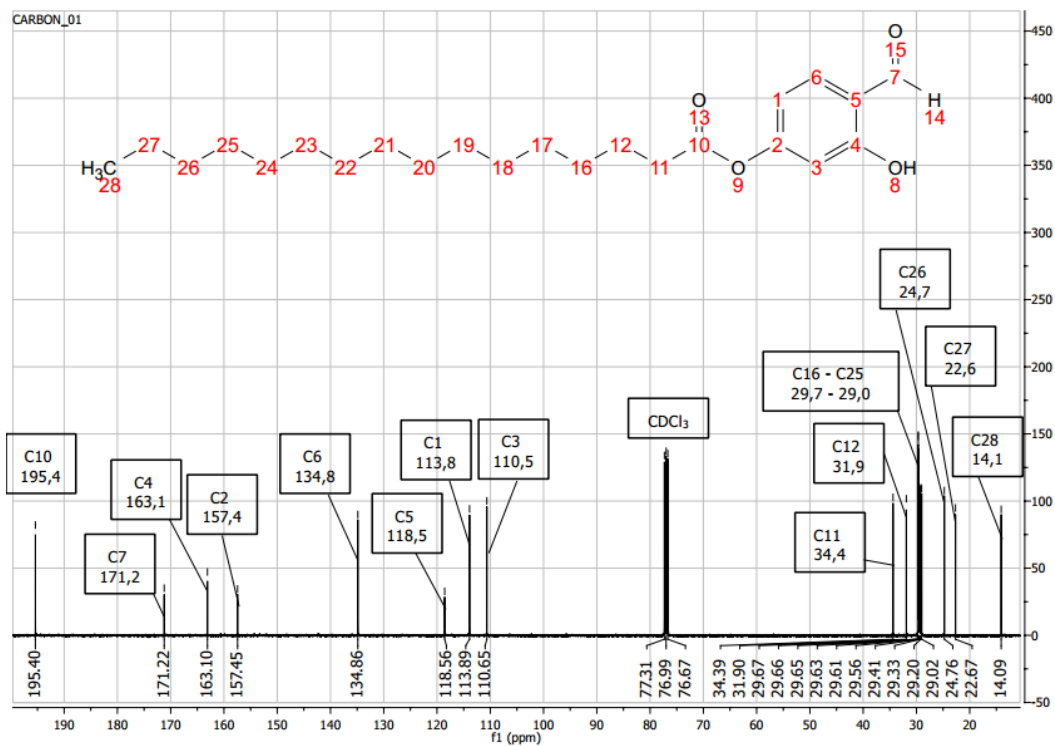
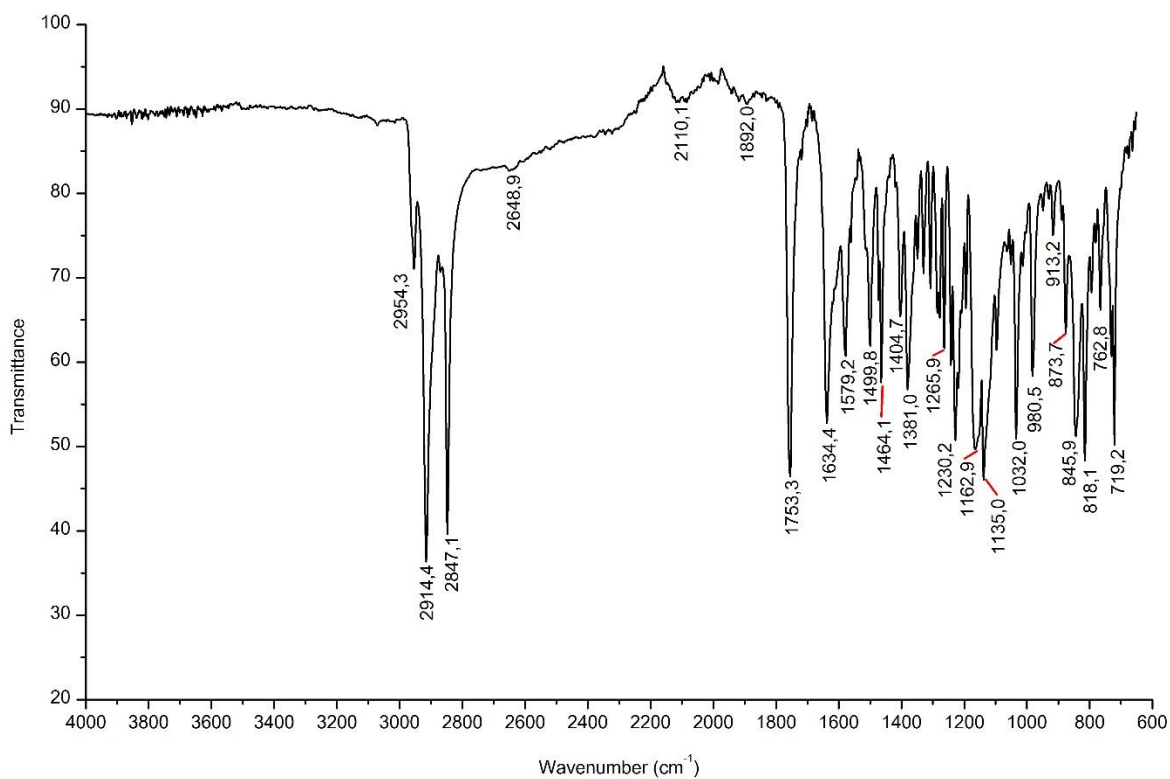
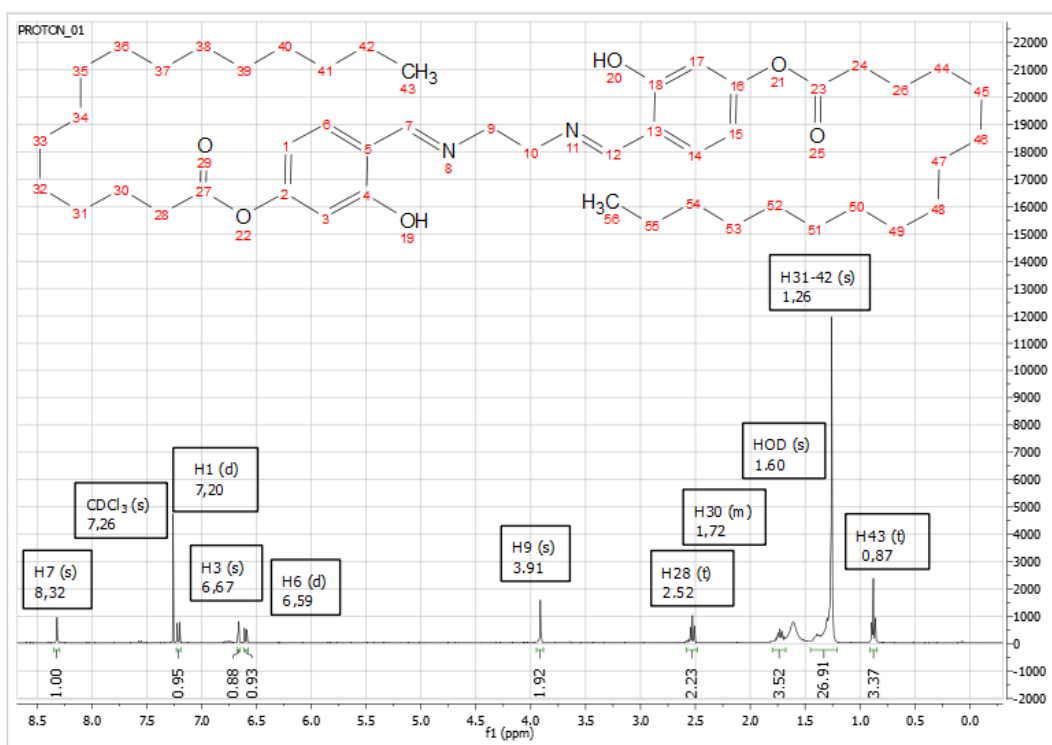


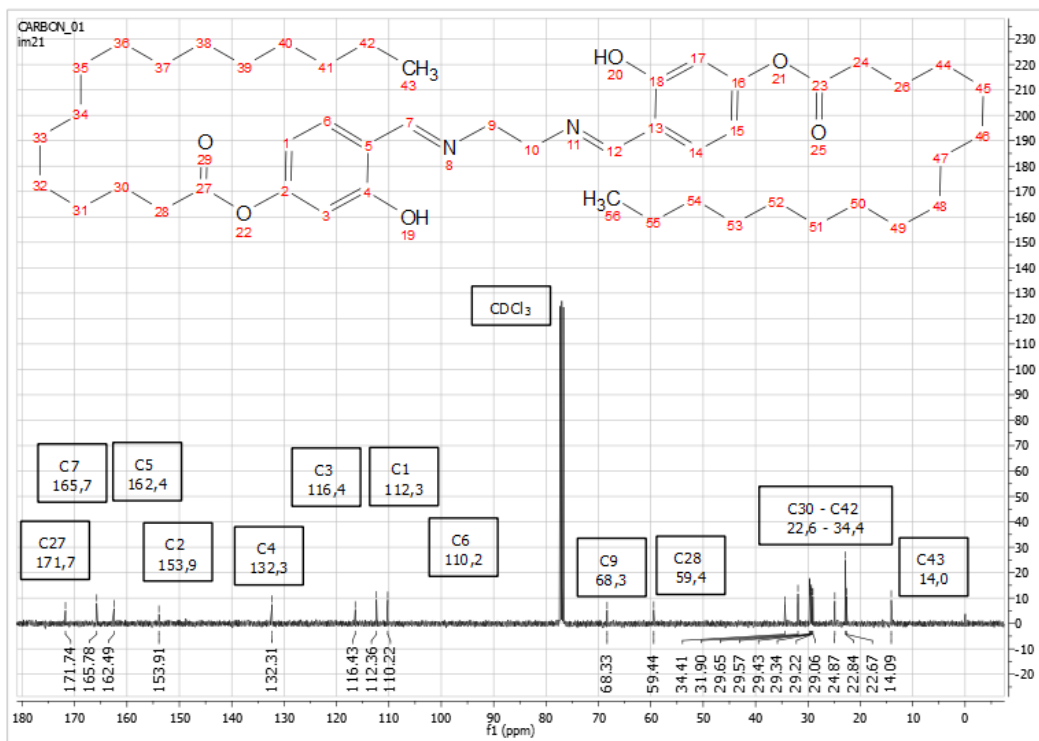
Figure S3. <sup>13</sup>C NMR spectrum (400 MHz, CDCl<sub>3</sub>) of intermediate ES.



**Figure S4.** FTIR spectrum of IM.



**Figure S5.** <sup>1</sup>H NMR spectrum (400 MHz, CDCl<sub>3</sub>) of IM.



**Figure S6.** <sup>13</sup>C NMR spectrum (400 MHz, CDCl<sub>3</sub>) of IM.