Supplementary Information

Synthesis, characterization, anticorrosion properties, and theoretical study of two α-aminophosphonate derivatives

Samia Baatouche[1,2], Rachida Kerkour[1,3]*, Ouahiba Moumeni[3], Mouna Mehri[3,4], Nadjib Chafai[3] & Salah Chafaa[4]

[1]Département des sciences et techniques, Faculté de Science et Technologies, Université Abdelhafid Boussouf-Mila, BP 26 Mila, Algeria

[2]Unité de Recherche Valorisation des Resources Naturelles, Université des Frères Mentouri Constantine, Constantine, Algeria

[3]Laboratoire d'Electrochimie des Matériaux Moléculaires et Complexes (LEMMC), Université Ferhat Abbas Setif-1, El-Maabouda, 19000, Setif, Algeria

[4]Département de Sciences Agronomiques, Faculté des Sciences de la Nature et de la Vie et des Sciences de la Terre et de l'Univers, Université Mohamed El Bachir El Ibrahimi Bordj Bou Arréridj El-Anasser, 34030, Algeria

*E-mail: ayamanel2000@yahoo.fr

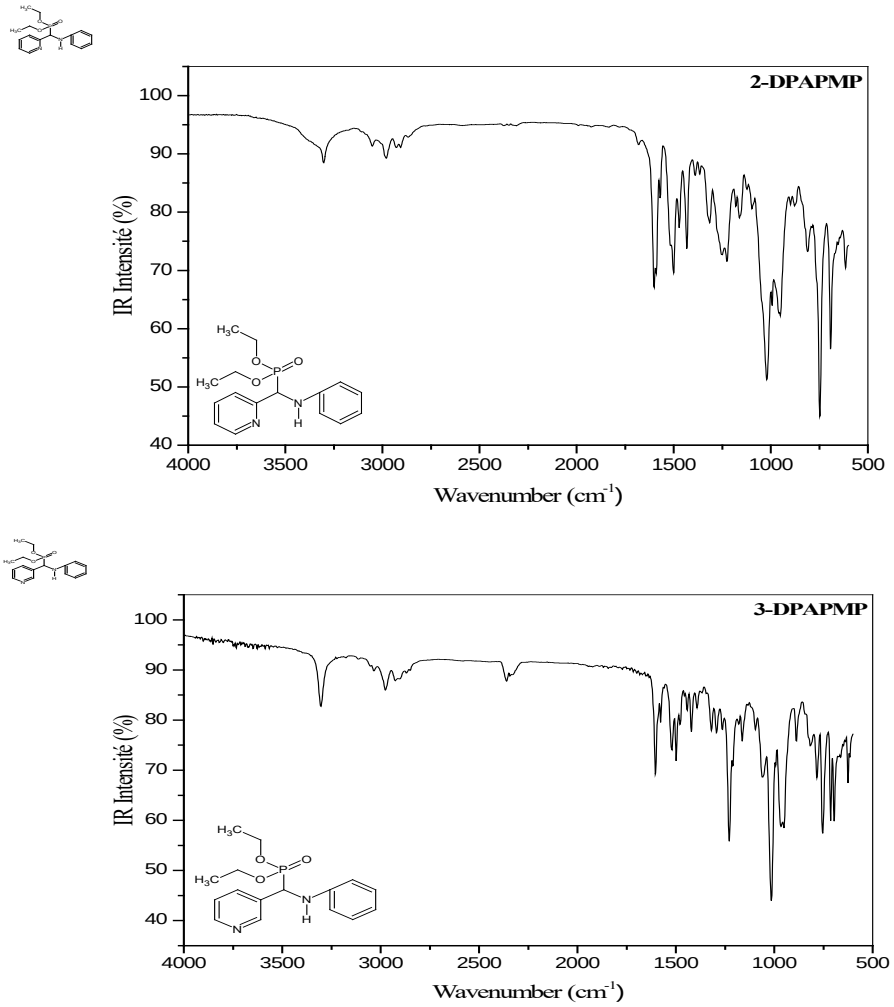


Fig. S1 — Infrared spectra of α-aminophosphonate derivatives

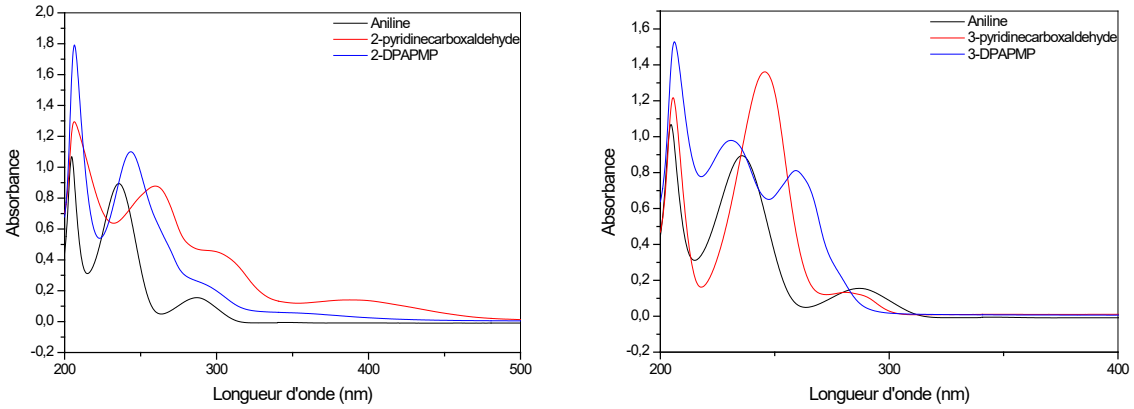
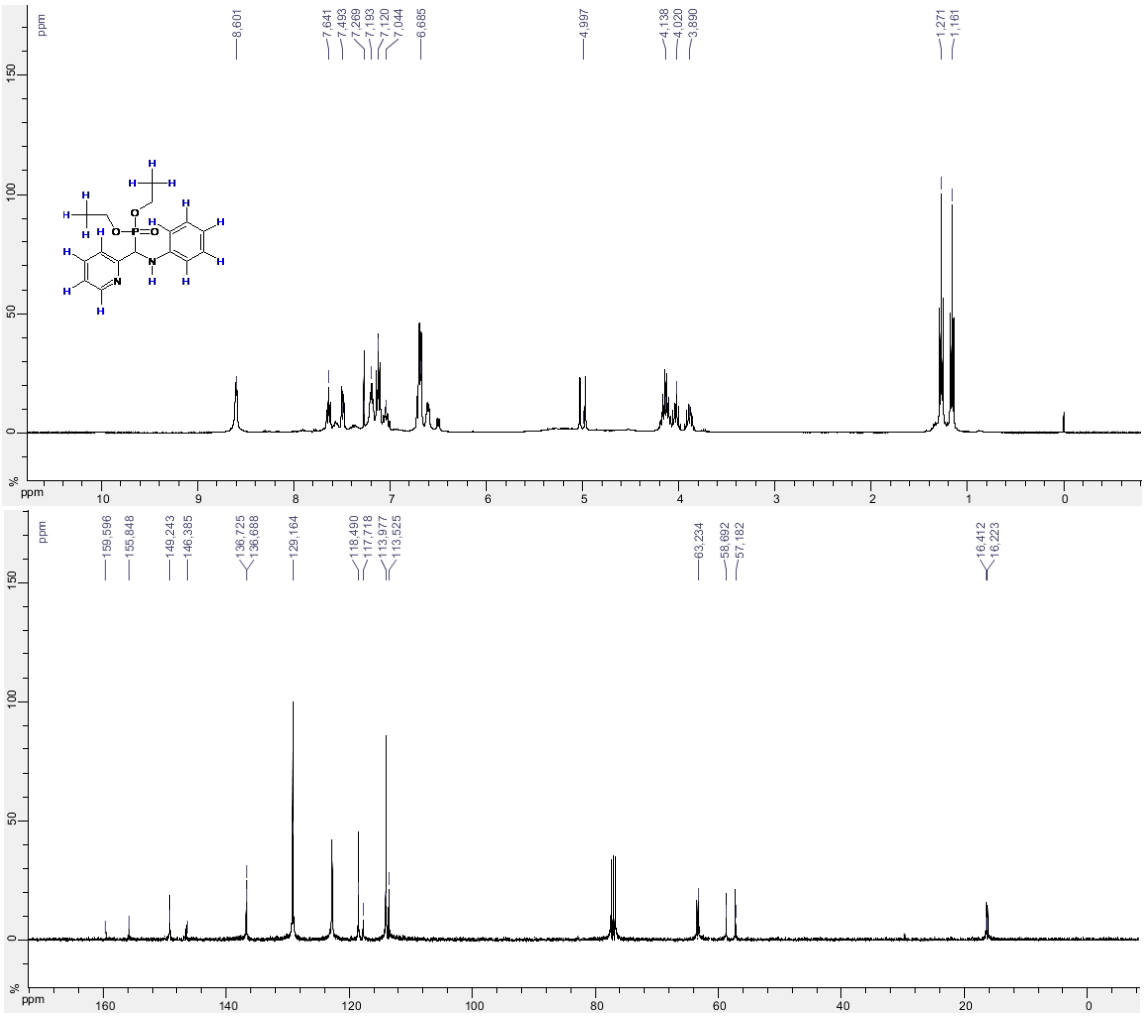


Fig. S2 — UV-visible spectra of α-aminophosphonate derivatives



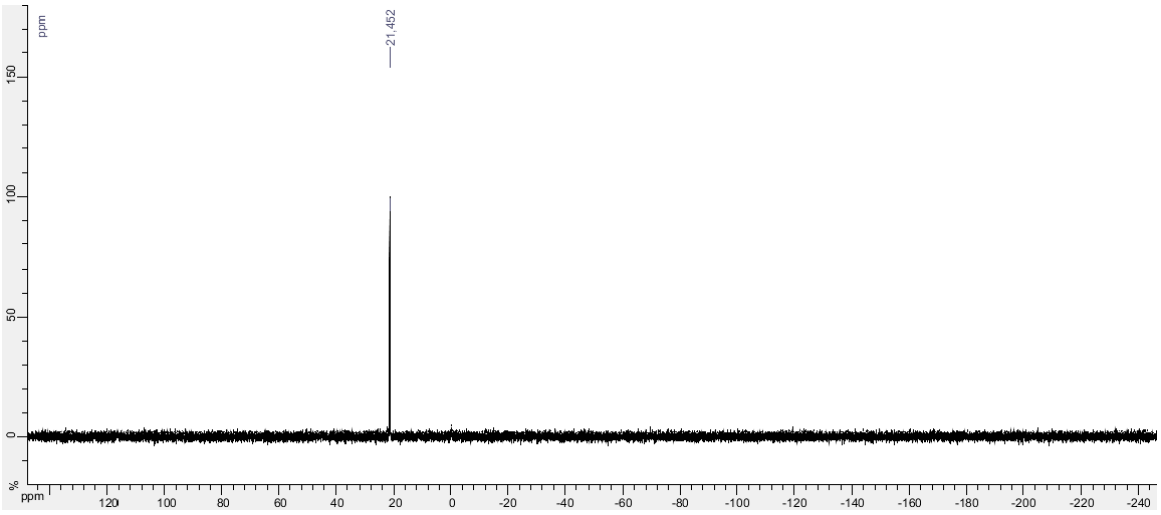
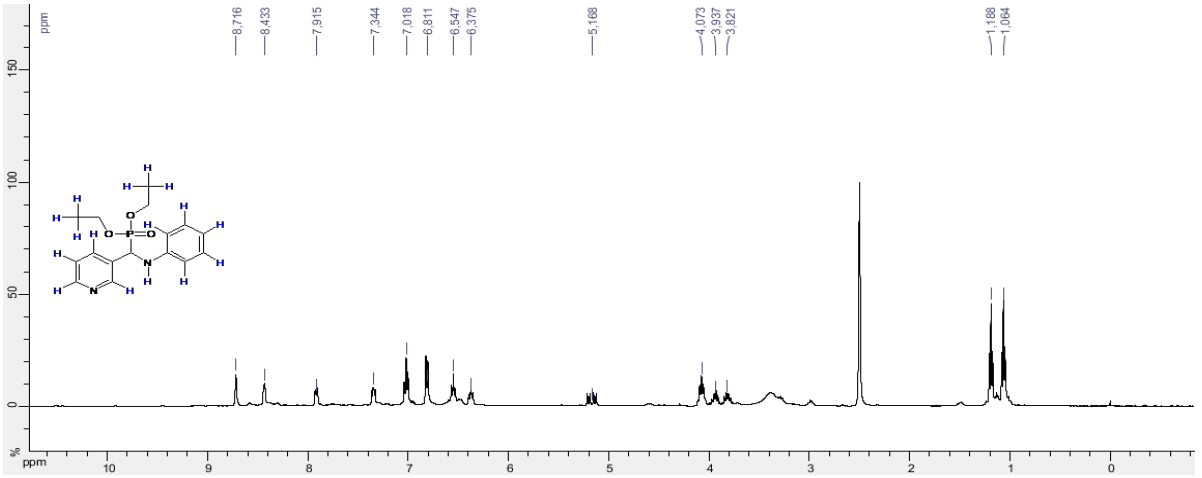
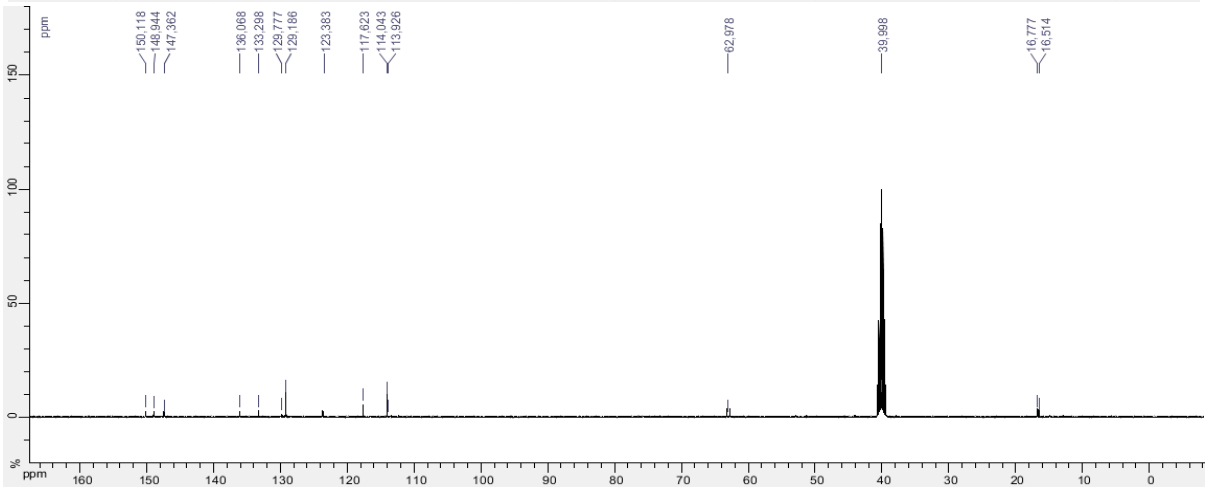


Fig. S3 — NMR spectra of o-DPAPMP





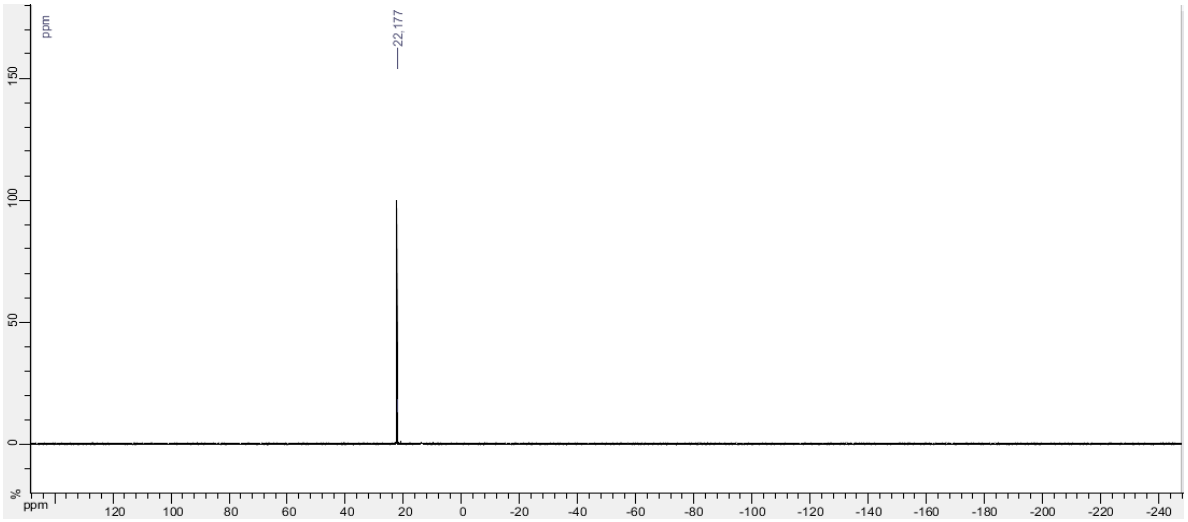


Fig. S4— NMR spectra of o-DPAPMP and m-DPAPMP

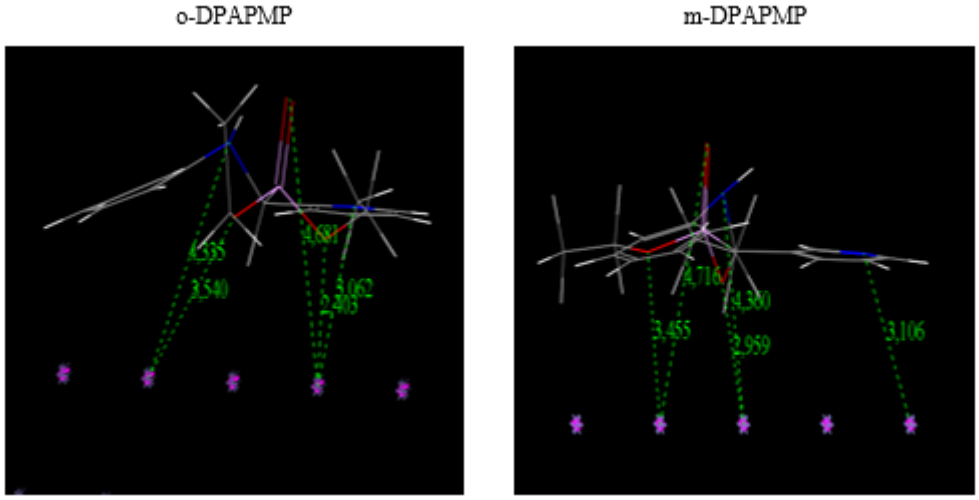


Fig. S5 — Measured bond distances between the active centres of o-DPAPMP and m-DPAPMP and Fe surface