

Supplementary Materials

Linear 2-Ethylhexyl Imidophosphoric Esters as Effective Rare-Earth Element Extractants

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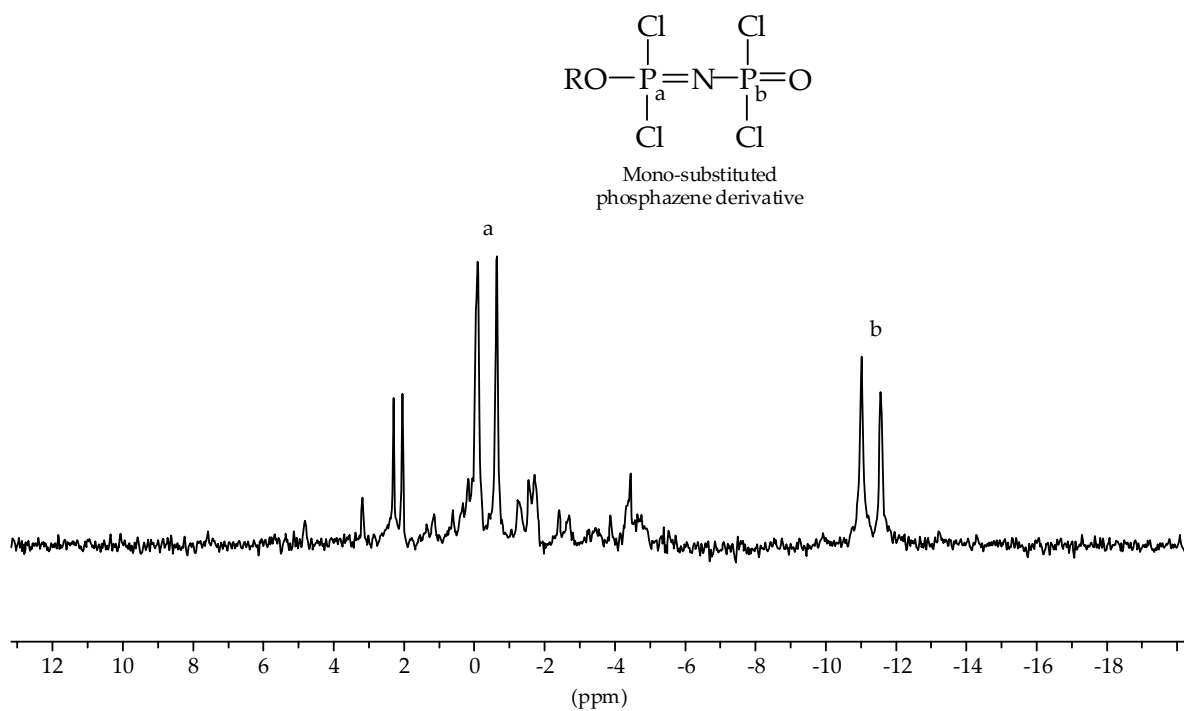


Figure S1: The ^{31}P NMR spectrum of products prepared by reaction of trichlorophosphazodichlorophosphonyl (TCDP) and 2-ethylhexanol (20% excess) at 22 °C in dioxane

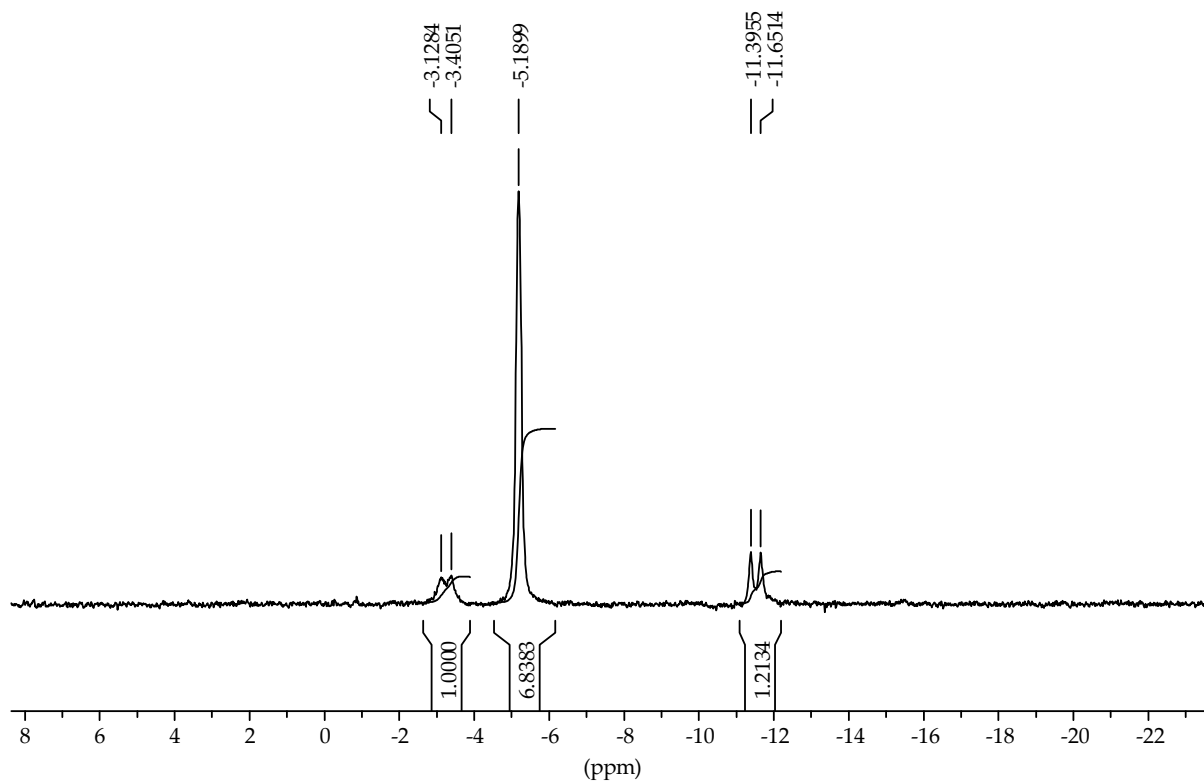


Figure S2: The ^{31}P NMR spectrum of products prepared by reaction of trichlorophosphazodichlorophosphonyl (1 mol) and 2-ethylhexanol (0.75 mol) at 70 °C in dioxane

The following are two figures with the original MALDI-TOF mass spectra of extractants (PAPNA and EIPA-2) not referenced in the text of the article.

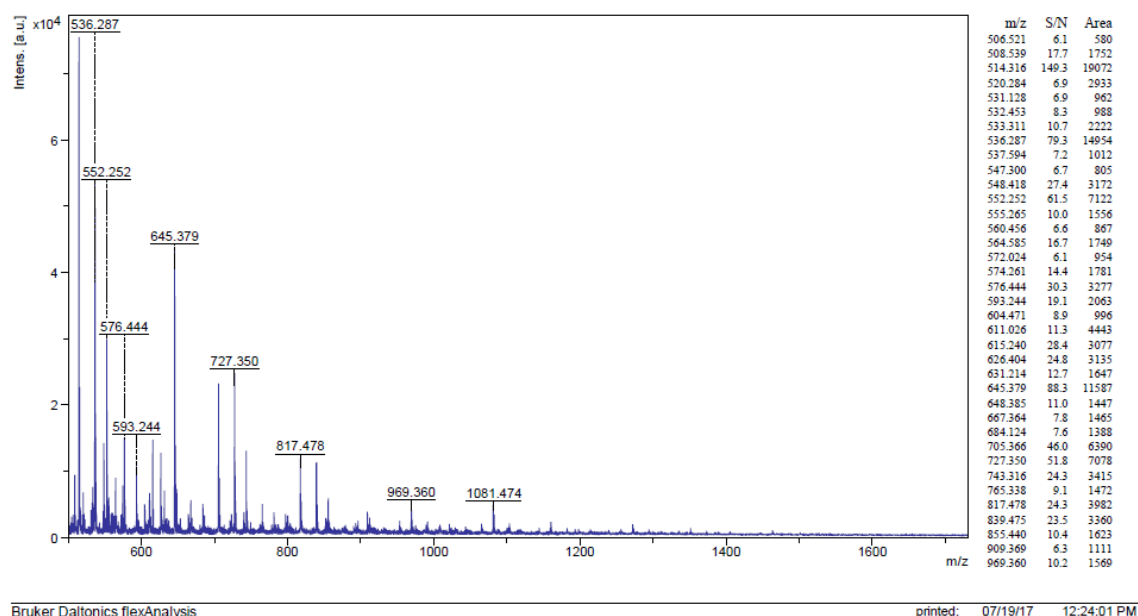


Figure S3: The MALDI-TOF mass-spectrum of commercialized polyalkylphosphonitrilic acid (PAPNA)

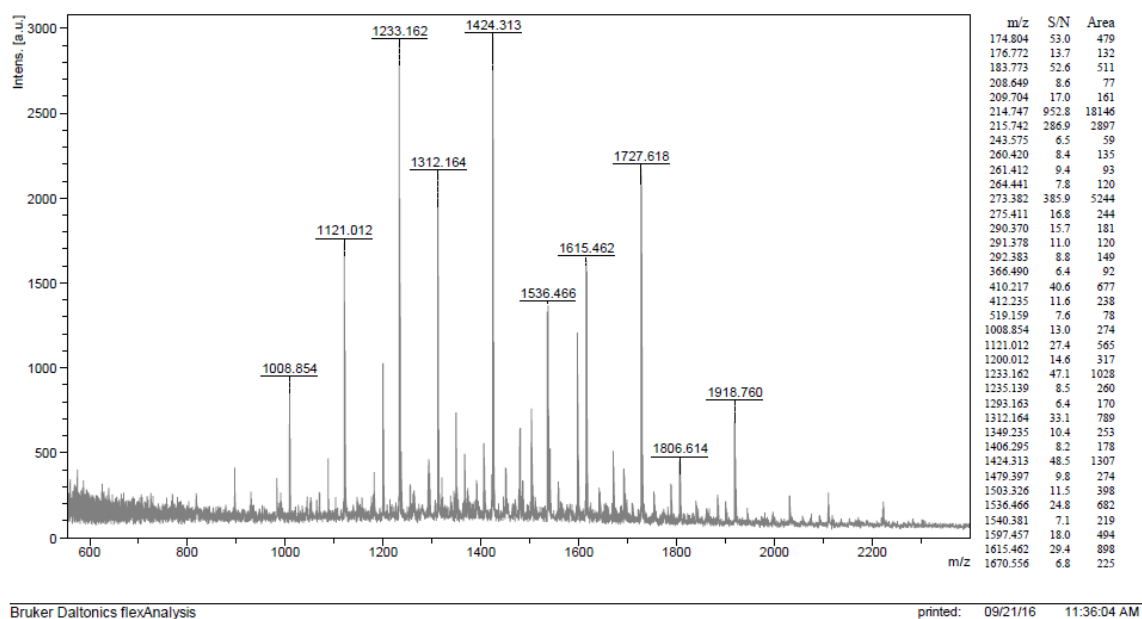


Figure S4: The MALDI-TOF mass-spectrum of oligomeric esters of imidophosphoric acids $R'O-[P(O)(OR)-NR']_n-PO(OR)(OR')$, where $n = 4-7$, $R' = R$ or H , $R = 2$ -ethylhexyl (EIPA-2)