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Russian Journal of General Chemistry 2009 vol.79 N12, pages 2625-2628

Reaction of diethyl 3-methyl-1,2-butadienylphosphonate with 1,10-diaza-18-crown-6

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Abstract

Reaction of two-fold excess of diethyl 3-methyl-1,2-butadienylphosphonate with 1,10-diaza-18-crown-6 leads to the formation of an adduct whose molecule includes two 1-phosphoryl-3-methyl-2-butene fragments bound together by a crown bridge with the anti location of organophosphorus groups relative to the macrocycle plane. The 1,2-multiple bond of the phosphonate is involved in the reaction. Extraction properties of the diphosphorylated crown ether toward alkali metal picrates were studied. © Pleiades Publishing, Ltd., 2009.

http://dx.doi.org/10.1134/S107036320912010X