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## "Phosphonoethylation" and diene-synthesis reactions with vinylphosphonic esters

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### Abstract

1. Dibutyl vinylphosphonate has been synthesized. 2. It has been shown that vinylphosphonic esters combine at the double bond with hydrogen sulfide and with mercaptans, yielding the corresponding dialkyl 2-mercaptoethylphosphonates and dialkyl 2-alkylmercaptoethylphosphonates respectively. 3. It has been shown that vinylphosphonic esters maybe used as dienophiles in diene-synthesis reactions. A method has been developed for the preparation of esters of homologs and derivatives of cyclohexenylphosphonic acid. © 1953 Consultants Bureau.

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