

Azeotropes of dialkylphosphorous acids with certain alcohols

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Abstract

1. In the interaction of dialkylphosphorous acids ($\text{Alk}=\text{CH}_3$ -, C_2H_5 -, C_3H_7 -, C_4H_9) with acetone cyanohydrin, azeotropic mixtures of the composition $(\text{RO})_2\text{P}(\text{O})\text{H}$: acetone cyanohydrin are formed. $\text{R}=\text{CH}_3$, 0.66:1, $\text{R}=\text{C}_2\text{H}_5$, 1:1; $\text{R}=\text{C}_3\text{H}_7$, 2:1 and $\text{R}=\text{i-C}_4\text{H}_9$, 3:1. 2. Diethylphosphorous acid forms azeotropes with the cyanohydrins of cyclohexanone, formaldehyde, and butyraldehyde; with chloretone, trichloroethanol, and hexanol. © 1966 Consultants Bureau.

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