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# Hydroquinone Monoacetate

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Benzene, aluminum chloride and methyl 2-furoate give methyl α-naphthoate in 56 per cent yield.

Benzene, aluminum chloride and methyl 2-methyl-3-furoate give methyl 4-phenyl-4, 5-dihydro-2-methyl-3-furoate; and substituted benzenes and other aryl types give related products.

A very wide variety of branched and straight chained alkyl halides react with ethyl 5-bromo-2-furoate in the presence of aluminum chloride to give ethyl 4-*tert.*-butyl-5-bromo-2-furoate. However, *n*-amyl bromide (unlike *n*-$C_5H_{11}Cl$, *n*-$C_5H_{11}I$, and the other RX compounds) gives ethyl 5-*tert.*-butyl-2-furoate exclusively, unless a purer grade (resublimed) aluminum chloride is used in which case the ethyl 4-*tert.*-butyl-5-bromo-2-furoate is obtained.

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## HYDROQUINONE MONOACETATE

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Alkyl monoesters of hydroquinone and pyrocatechol have not hitherto been prepared. Hydroquinone monoacetate has been obtained by the following series of reactions. Hydroquinone plus one molar equivalent of carbobenzoxy chloride gives hydroquinone monobenzyl carbonate. This compound is acetylated, and then hydrogenated in alcohol with Pd or Ni catalyst. Hydroquinone monoacetate, plates or needles from petroleum ether, M. P. 57-59°C., is obtained from the residue.

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## MIXED DIACYL DERIVATIVES OF *O*-AMINOPHENOL CONTAINING AN ACYL DERIVED FROM A SULFONIC ACID

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In previous work in this Laboratory it was found that, in general, only one mixed diacyl derivative can be obtained from *o*-aminophenol, regardless of the order of introduction of these acyls, provided both are derived from carboxylic acids. In one