A New Synthesis of 6-Methyl-3-pyridinol

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6-Methyl-3-pyridinol (I) has been prepared by interaction of furfurylamine and formaldehyde in acid aqueous solution (yield 64%). Since it is known that 2-aminomethyl-5-hydroxymethyl-furan (II) under similar reaction conditions is transformed into I (yield 88%) \(^1\) it is reasonable to assume that II, or its equivalent, is an intermediate in the formation of I from furfurylamine and formaldehyde.

\[
\begin{align*}
\text{HCl, H}_2\text{O} & \quad 64\% \\
\left[\text{HOCH}_2\text{OCH}_2\text{NH}_2\right] & \quad \text{II} \\
\text{CH}_2\text{NH}_2+\text{HCHO} & \\
\end{align*}
\]

\[
\begin{align*}
\text{H}_3\text{C} & \quad \text{OH} \\
\end{align*}
\]

I

The Crystal Structure of IrAl\(_3\)

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In the course of phase analysis and crystal structure studies on the iridium-aluminium system a phase with the composition IrAl\(_3\) has been studied.

A sample of IrAl\(_3\) was prepared by arc-melting a mixture of iridium powder (L. Light & Co; about 99.98%) and aluminium (E. Merck AG, at least 99.99%) in...