Acid Anhydrides react with water to form carboxylic acids

**General Reaction**

\[ \text{Acid Anhydride} + \text{H}_2\text{O} \xrightarrow{\text{Pyridine}} 2 \text{Carboxylic acid} \]

**Example 1:**

\[ \text{Acid Anhydride} + \text{H}_2\text{O} \xrightarrow{\text{Pyridine}} 2 \text{Carboxylic acid} \]

**Mechanism**

1) Nucleophilic Attack by the Alcohol

2) Deprotonation by pyridine

3) Leaving group removal

4) Protonation of the carboxylate
Contributors

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