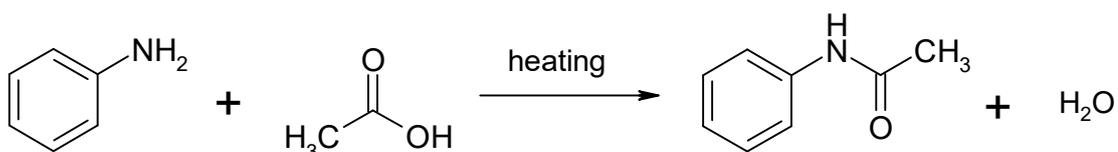


**Question:**

If the acylation reaction does not go to completion there is unreacted aniline left in the round bottom flask. Name and draw the structure of the product formed when aniline reacts with acetic acid.

**Answer:**

Reaction scheme:



The Chemical Name of product: "N-phenylacetamide" or "Acetanilide".

This reaction is reversible. It must be used the excess of acetic acid to remove the water from the reaction mixture.

Also, (and it will be better), you may use other reagents for the acylation, such as:

- Acetic anhydride
- Acetyl chloride
- Acetic acid esters (for example, ethyl acetate)

Answer provided by AssignmentExpert.com