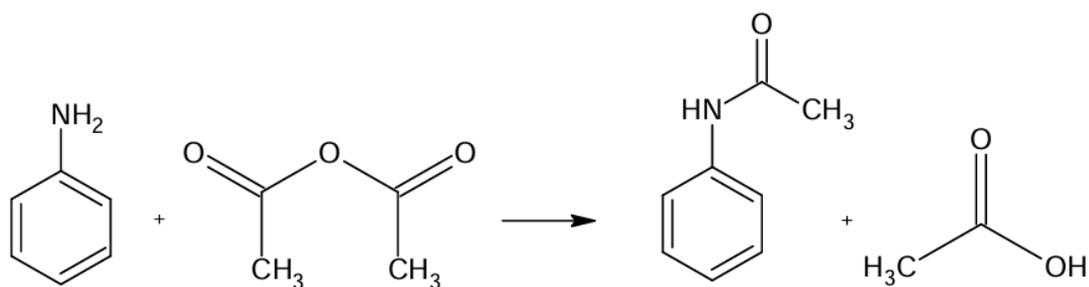


ACETANILIDE



Reagents:

acetic anhydride - 10ml
250ml aniline - 10ml
glacial acetic acid - 10ml
Zn dust - 0.1g
Ethanol - 5ml

Apparatus:

round-bottomed flask
beakers 400ml, 100ml
reflux condenser
crystalliser
funnel glass and PP
watch glass
glass rod

Preparation:

In a 250ml round-bottomed flask fitted with a reflux condenser, place 10ml aniline, 10ml acetic anhydride, 10ml glacial acetic acid and 0.1g zinc dust.

The mixture is heated gently to boiling over 30 minutes, and then hot stirring is poured in a thin stream into a beaker containing 250ml of water with ice.

Once cooled, the crude product is drained, washed with a small amount of cold water and air-dried.

The crude product is crystallised from 150ml of water with the addition of 5ml of ethanol.

Melting point: 113-114 °C