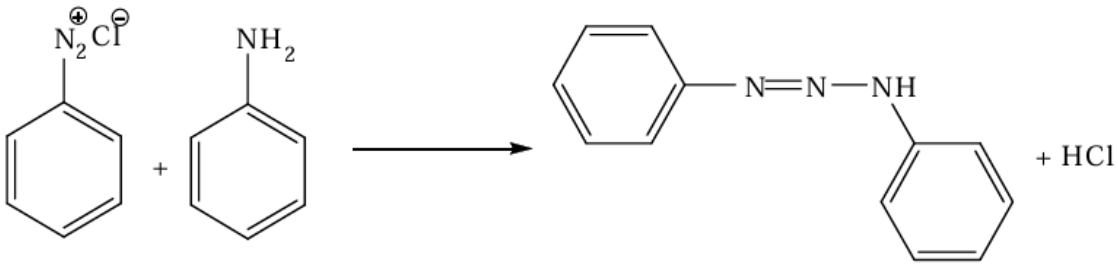
DIAZOAMINOBENZENE



Reagents:

conc. HCl – 6.7 ml
Aniline – 4.6 ml
$NaNO_2$ – 1.75 g
Sodium acetate – 7 g

Apparatus:

Erlenmayer flask with ground glass 200 ml
Dropper 25 ml
High beaker 50 ml
glass funnel
thermometer up to 150 ^oC
crystalliser
glass rod
Petri glass

Preparation:

In a Erlenmayer flask, 25ml of water, 6.7ml of concentrated hydrochloric acid and 4.6ml of aniline are placed. The flask is shaken vigorously and 17g of broken ice is added.

A 30% aqueous solution of sodium nitrate (III) (5ml) is then added over 5-10 minutes, shaking continuously. The reaction mixture is left to stand for 15 minutes (shaking quite frequently) and then a 35% aqueous solution of sodium acetate (21ml) is added within 5 minutes.

The yellow diazoaminobenzene precipitate is shaken at below 20^oC (ice is added if necessary) over 45 minutes, then drained, washed with about 80ml of cold water (the precipitate should be pressed as thoroughly as possible) and air-dried

Melting point: 90-91 ^oC