

Synthesis of aniline from nitrobenzene lab report

How is nitrobenzene converted into aniline. Aniline synthesis. Synthesis of aniline from nitrobenzene. How to make aniline from nitrobenzene.

Looking forward to seeing everyone at the meeting tomorrow and discussing our strategies. Apparatus: Procedure: First, combine 25 g of granulated tin and 12 g of nitrobenzene in a 500-mL round-bottomed flask. Create an ice-water bath, then add 55 mL of concentrated hydrochloric acid while swirling well to promote the reaction. Let the mixture react until the temperature reaches 60°C; cool briefly in ice just long enough to prevent the temperature from rising over 60°C; continue to swirl, cool as needed, and keep the temperature between 55°C and 60°C for 15 minutes. Remove the thermometer, clean it with water, and place the flask on a heating mantle with frequent swirling until droplets of nitrobenzene are no longer present in the condenser and the color caused by the formation of an intermediate reduction product has faded (about 15 min). Next, dissolve 40 g of sodium hydroxide in 100 mL of water and cool to rount temperature. At the end of the reduction reaction, cool the acid solution on ice while graduality adding the alkali solution. This neutralizes the aniline hydrochloride, resulting in the release of aniline, which is now volatile in steam. Perform steam distillation with a three-neck flask; one opening should be stoppered, the second for a dropping funnel hydrochloride, resulting in the release of aniline, which is now volatile in steam. Perform steam distillation with a three-neck flask; one opening should be stoppered, the second for a dropping funnel hydrochloride, resulting in the release of aniline with a three-neck flask; one opening should be stoppered, the second for a dropping funnel hydrochloride, resulting in the release of aniline with a three-neck flask; one opening should be stoppered, the second for a dropping funnel hydrochloride, resulting in the release of aniline with a three-neck flask; one opening should be stoppered, the second for a look of the clear three-neck flask; one opening should be stoppered, the second for a boline point of solution. The formation of benefit in the point