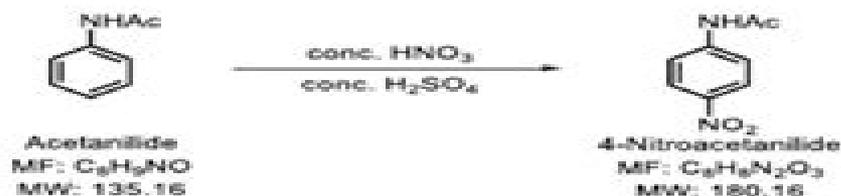


CHM 114X: Organic Chemistry Laboratory Course

Two-stage synthesis of 4-nitroacetanilide from aniline:

Experiment 3: Stage 2: Synthesis of 4-nitroacetanilide

Reaction:



Chemicals Required: Acetanilide (synthesized by you in the first step), conc. H₂SO₄, conc. HNO₃, and glacial acetic acid.

Glassware & Equipment required: Beakers (50 & 100 mL), droppers, Erlenmeyer (conical) flasks (25 mL x 2 & 50 mL), graduated cylinders (10 & 25 mL), hot plate with magnetic stirrer, magnetic stir bar, spatula, stirring rod, filter paper, thermometer, Buckner funnel and vacuum filtration assembly.

Hazards Information: For Material Safety Data Sheet (MSDS), consult the lab-in charge.

Acetanilide is hazardous in case of skin contact (irritant), eye contact (irritant) and is a possible carcinogen.

Conc. H₂SO₄ is very hazardous in case of skin contact (corrosive, irritant and permeator), of eye contact (irritant and corrosive), of ingestion and of inhalation. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. It is a carcinogen.

Conc. HNO₃ is very hazardous in case of skin contact (corrosive, irritant and permeator), of eye contact (irritant and corrosive) and of ingestion. It is also hazardous in case of inhalation (lung sensitizer). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns.

Glacial acetic acid is very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion and of inhalation. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Mutagenic effects: Mutagenic for mammalian somatic cells, mutagenic for bacteria and/or yeast.

Precautions:

Use lab coat and safety goggles at all times in the lab. Handling of chemicals and reaction should be carried in a fume hood. Never touch, smell, or taste the chemicals. For more details read MSDS of chemicals which you are using. Any accident should be promptly informed to your instructor.

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Roman Wölfel



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