



University of Technology
Chemical Engineering Department
Graduation Project Summary



- **Supervisors:** Dr. Eman Jawad Taha
Asst.Lect. Nedhal A. Shaker
- **Branch:** Oil and Gas Refinery Engineering
- **Groups No. :** R9
- **Students Name:** Mustafa Mohammed
Amjed Muhy Obiad
- **Project Title:** Production of Aniline from Nitrobenzene
- **Specific Objective:**



1- Definition and Chemical Formula:

Aniline is an organic compound that comes from coal and oil. aniline is a primary amine - a compound in which one of the hydrogen atoms in an ammonia molecule has been replaced by a hydrocarbon group.
(C₆H₅NH₂)

2- Other Names:

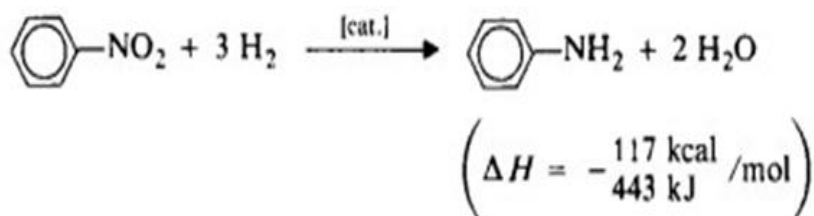
Pheylamine.

3- Goal of Project:

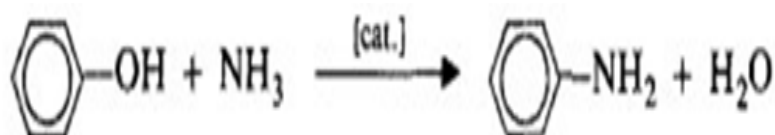
Production of Aniline with high purity that is used in chemical industries like (dyes, solvent and rubber) with capacity (1572 Kg/hr).

4- Production Methods:

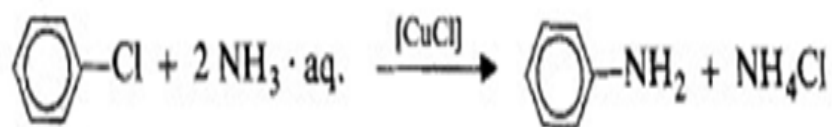
A-Manufacturing of aniline from nitrobenzene:



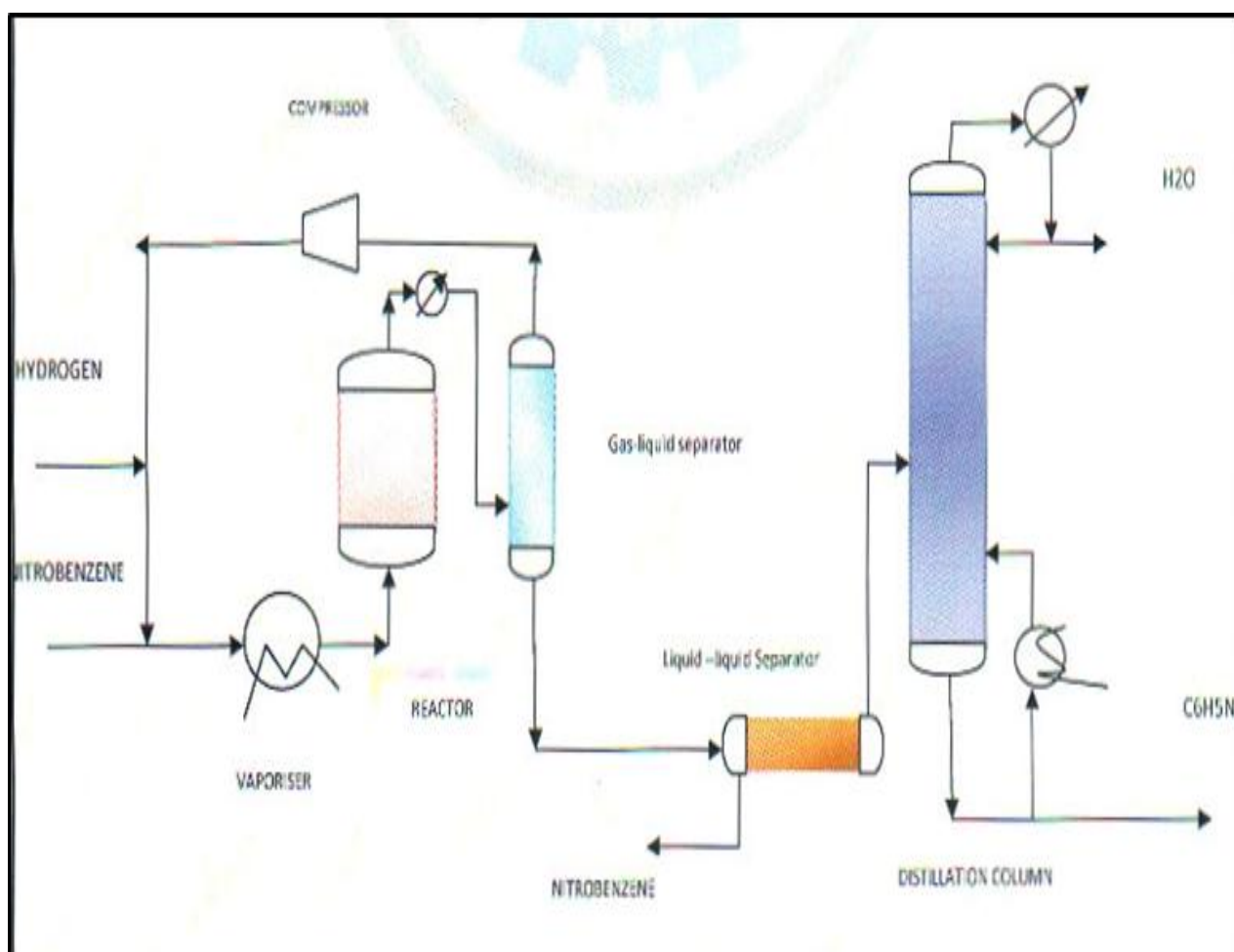
B-Manufacturing of aniline from phenol:



C-Manufacturing of aniline from chlorobenzene:



5- Flow Sheet for Selected Production Method:



Production of Aniline from Nitrobenzene