



**University of Technology**  
**Chemical Engineering Department**  
**Graduation Project Summary**



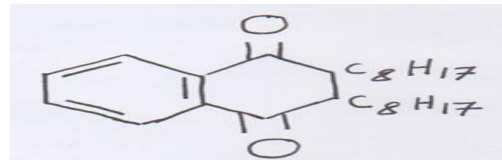
- **Supervisors:** Asst. Prof. Dr. Shahrazad Rifat Raouf  
Dr. Nabilah Adil Mohammed
- **Branch:** Oil and Gas Refinery Engineering
- **Groups No. :** R2
- **Students Name:** Abdullah Adel Dhari  
Obaida Hasan Abdullsattar  
Mondher Adnan Hammood
- **Project Title:** Production of Dioctyl  
Phthalate (DOP)
- **Specific Objective:**



### 1- Definition and Chemical Formula:

DOP is a wide type of plasticizers for its properties with different uses of polyvinyl chloride compound with good prices compared with other plasticizers. There is an increase in yearly consumption of DOP compared with other plasticizers. Other primary plasticizers are: (DIHP, DBP, DIBP) secondary plasticizers added to a polymer to get a good physical property for the final product.

The chemical formula of DOP is



### 2- Other Names:

DOP [Dioctyl Phthalate], DEHP [Di Ethyl hexyl phthalate ], BEHP [ Bis(2-ethyl hexyl phthalate)].

### 3- Goal of Project:

The capacity for the production of DOP plant depends on the consumption and uses of DOP in Iraq and it also depend on the consumption of PVC. Table below shows the increase of consumption of DOP and PVC.

<u>Year</u>	<u>ton DOP</u>	<u>ton PVC</u>
1973	3960	4950
1975	8712	10890
1978	15840	191100

The total capacity for petrochemical plant is (20000 ton/year) while DOP is (16000 ton/year). The total capacity in Watin chemical





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