



International University of Africa

Deanship of Graduate Studies

Production characterization of aromatics compounds from (Alfola) crude oil

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الآية

قال تعالى ((الله نُورُ السَّمَاوَاتِ وَالْأَرْضِ مِثْلُ نُورِهِ كَمِشْكَاةٍ فِيهَا مِصْبَاحٌ الْمِصْبَاحُ فِي زُجَاجَةٍ الزُّجَاجَةُ كَأَنَّهَا كَوْكَبٌ دُرِّيٌّ يُوقَدُ مِنْ شَجَرَةٍ مُبَارَكَةٍ زَيْتُونَةٍ لَا شَرْقِيَّةٍ وَلَا غَرْبِيَّةٍ يَكَادُ زَيْتُهَا يُضِيءُ وَلَوْ لَمْ تَمْسَسْهُ نَارٌ نُورٌ عَلَى نُورٍ يَهْدِي لِنُورِهِ مَنْ يَشَاءُ وَيَضْرِبُ اللَّهُ الْأَمْثَالَ لِلنَّاسِ وَاللَّهُ بِكُلِّ شَيْءٍ عَلِيمٌ))

سورة النور الآية (35)

Dedication

We dedicate my dissertation work to my families and many friends. A special feeling of gratitude to my loving parents whose words of encouragement and supported me throughout the work. Ask God's almighty to find acceptance and success.

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First of all, we are grateful to The God for complete this work. Then all thanks to our supervisor **D.MOHAMMED MERGANI ALI** for great interest and develop our technology skills.

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Abstract

This study deals with a proposal for the production and separation of aromatic compounds (benzene, toluene, xylene) where these compounds are extracted from the catalyst reform unit of naphtha with platinum at high temperatures, producing a mixture of aromatic compounds which are then separated and characterized .

This work is deals with important economic role in the field of industry and the impact of these compounds on humans and the environment.

الخلاصة

تتناول هذه الدراسة مقترح لإنتاج وفصل المركبات العطرية (البنزين ، التولوين ، الزايلين) حيث تستخرج هذه المركبات من الإصلاح الحفزي للنافثا مع البلاتين في درجات الحرارة العالية حيث ينتج خليط من المركبات العطرية ويتم فصل كل مركب على حده.

وتتناول ايضاً اهميتها الإقتصادية ودورها في مجال الصناعة وتأثير هذه المركبات على الإنسان والبيئة.

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