

**Direct Oxidation Of Benzene To Phenol:
Investigation Of The Active Iron Species In
[Fe,Al]MFI Catalysts By ⁵⁷Fe Mossbauer
Spectroscopy (Stand Alone Dup) By J.B. Taboada**

By J.B. Taboada

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British Library EThOS: Direct oxidation of benzene -

This thesis deals with two major process routes for the direct
oxidation of benzene to phenol. The main objective of the first route
was to understand the properties

<http://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.603101>

Energy & Environmental Science -

Direct catalytic oxidation of benzene to phenol over metal-free
graphene-based catalyst Jing-He Yang,ab Geng Sun,a Yongjun Gao,a Huabo
Zhao,a Pei Tang,a Juan Tan,b

<http://www.escience.cn/system/download/62144>

Direct Oxidation of Benzene to Phenol with -

Direct Oxidation of Benzene to Phenol with Hydrogen Peroxide over a Modified Titanium Silicalite

<http://onlinelibrary.wiley.com/doi/10.1002/anie.200352184/citedby>

Patent US6646167 - Method of manufacturing phenol -

In the method according to the second aspect of the present invention, phenol is manufactured by direct oxidation of benzene using a zinc-vanadium-supported alumina

<http://www.google.com/patents/US6646167>

Direct oxidation of benzene to phenol by -

Direct oxidation of benzene to phenol by molecular oxygen over catalytic systems containing Pd(OAc)₂ and heteropolyacid immobilized on HMS or PIM

<http://www.sciencedirect.com/science/article/pii/S1381116906008193>

IOS Press -

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<http://www.iospress.nl/book/direct-oxidation-of-benzene-to-phenol/>

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Cobalt Catalyst for the Direct Oxidation of -

Application Cobalt oxidation catalyst for the production of phenol using molecular oxygen. Key Benefits. Phenol production without production of the unwanted acetone

<http://www.ibridgenetwork.org/emory/cobalt-catalyst-for-the-direct-oxidation-of-benzene-to-phenol>

Improvement of catalyst life time in the direct -

Improvement of catalyst life time in the direct oxidation of benzene to phenol with N₂O using modified ZSM-5 type zeolites Verbesserung der Katalysatorstandzeit in der

https://opus4.kobv.de/opus4-fau/files/2191/Saiprasath_Gopalakrishnan_Dissertation.pdf

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10 H.ZSM.5 30 60 90 120 150 180 Time on stream I min o meso+e-ZSM-5 alkaline post 5 catal Sts obtained Direct oxidation of benzene to phenol b N₂O

http://www.polyestertime.it/files/direct_oxidation_of_benzene_to_phenol_by_n2o_14-0.pdf

271- Direct Oxidation of Benzene to Phenol in Air -

Direct Oxidation of Benzene to Phenol in Air over a Zeolite-Based Catalyst Norma B. Castagnola,¹ Christopher L. Marshall,^{1,*} and A. Jeremy Kropf¹

<http://nacatsoc.org/18nam/Orals/270-Direct%20Oxidation%20of%20Benzene%20to%20Phenol%20in%20Air.pdf>

Method Of Manufacturing Phenol By Direct Oxidation -

Method Of Manufacturing Phenol By Direct Oxidation Of Benzene - Patent 6355847.pdf Download legal documents The present invention relates to a method of manufacturing

<http://www.docstoc.com/docs/51064001/Method-Of-Manufacturing-Phenol-By-Direct-Oxidation-Of-Benzene---Patent-6355847>

Benzene - Learn about the Benzene topic at -

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<http://www.bigcaring.com/learn?s=Benzene>

Direct selective oxidation of benzene to phenol -

The use of heteropolyacids as a reoxidant for palladium in the direct oxidation of benzene to phenol with molecular oxygen was studied as a function of the vari

<http://www.sciencedirect.com/science/article/pii/S1381116996004402>

Other Reactions of Benzene and Methylbenzene - -

Combustion. Like any other hydrocarbons, benzene and methylbenzene burn in a plentiful supply of oxygen to give carbon dioxide and water. For example:

http://chemwiki.ucdavis.edu/Organic_Chemistry/Hydrocarbons/Aromatics/Reactions_of_Aromatics/Other_Reactions_of_Benzene_and_Methylbenzene

Direct Oxidation of Benzene to Phenol: -

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<http://www.amazon.cn/%E5%9B%BE%E4%B9%A6/dp/1586036912>

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<http://www.iberlibro.com/buscar-libro/autor/taboada-j-a/>

One-Step Oxidation of Benzene to Phenol over -

We have investigated about the gas-phase direct oxidation of benzene to phenol without reducing reagents. The copper catalysts supported on HZSM-5 or NaZSM-5 have
<http://link.springer.com/content/pdf/10.1007/s10562-009-0240-4.pdf>

Direct Oxidation of Benzene to Phenol - Wiley -

Reducing reagents, such as ascorbic acid, are needed for vanadium-containing catalysts to catalyze the direct oxidation of benzene to phenol by dioxygen.
<http://onlinelibrary.wiley.com/doi/10.1002/cjoc.200990360/abstract>

DIRECT OXIDATION OF BENZENE TO PHENOL IN LIQUID -

JNS 1 (2012) 69-75 Direct oxidation of benzene to phenol in liquid phase by H_2O_2 over vanadium catalyst supported on highly ordered nanoporous silica
http://www.sid.ir/en/VEWSSID/J_pdf/102902012JAN0110.pdf

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<http://appetite15savage.jeux52.com/direct-oxidation-of-benzene-to-phenol-investigation-of-the-7677793.pdf>

Direct oxidation of benzene by electron transfer -

Direct oxidation of benzene by electron transfer in a multi-functionalized chelate resin system

<http://pubs.rsc.org/en/Content/ArticleLanding/DT/1995/DT9950000979>

Review of Direct hydroxylation of Benzene to -

Even though theoretical study shows high conversion is possible, literature survey shows that direct oxidation of benzene to phenol is a difficult task.

http://www.academia.edu/4825094/Review_of_Direct_hydroxylation_of_Benzene_to_Phenol_and_its_Thermodynamics_analysis

Patent US6388145 - Method for the oxidation of -

1. A method for oxidizing a starting material selected from the group consisting of benzene, toluene and combinations thereof, to an oxidation product selected from

<http://www.google.com/patents/US6388145>

PARTIAL OXIDATION OF BENZENE IN REACTION-EXTRCTION -

Direct, partial, oxidation of benzene to phenol is one of the most difficult reactions. Many researchers are investigating the novel catalysts.

http://archivos.labcontrol.cl/wcce8/offline/techsched/manuscripts/uy9s_ii.pdf

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<http://www.amazon.com/Direct-Oxidation-Benzene-Phenol-Investigation/dp/1586036912>

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<https://www.scribd.com/doc/60059348/Greenwood-Gibbs-Mossbauer-Spectroscopy>

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