

Title (en)

PROCESS FOR PRODUCING PHENOL AND/OR CYCLOHEXANONE FROM CYCLOHEXYLBENZENE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON PHENOL UND/ODER CYCLOHEXANON AUSGEHEND VON CYCLOHEXYLBENZEN

Title (fr)

PROCÉDÉ DE FABRICATION DE PHÉNOL ET/OU CYCLOHÉXANONE À PARTIR DE CYCLOHÉXYLBENZÈNE

Publication

EP 2895442 A1 20150722 (EN)

Application

EP 13766191 A 20130911

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Abstract (en)

[origin: WO2014043188A1] In a process for producing phenol and/or cyclohexanone, cyclohexylbenzene is contacted with an oxygen-containing gas to produce an oxidation effluent containing cyclohexylbenzene hydroperoxide and the cyclohexylbenzene hydroperoxide is then contacted with a cleavage catalyst to produce a cleavage effluent containing phenol and cyclohexanone. At least one of the oxidation effluent and the cleavage effluent also contains at least one by-product selected from phenylcyclohexanols and phenylcyclohexanones and the process further comprises contacting the by-product with a dehydration catalyst to convert the by-product to phenylcyclohexene and hydrogenating the phenylcyclohexene to cyclohexylbenzene. The dealkylation and hydrogenation may be conducted in a single stage.

IPC 8 full level

C07C 1/24 (2006.01); **C07C 2/74** (2006.01); **C07C 5/03** (2006.01); **C07C 13/28** (2006.01); **C07C 37/08** (2006.01); **C07C 39/04** (2006.01); **C07C 45/53** (2006.01); **C07C 49/403** (2006.01); **C07C 407/00** (2006.01); **C07C 409/14** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2014043188A1

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