

Title (en)
PROCESS FOR THE PRODUCTION OF DINITROTOLUENE.

Title (de)
VERFAHREN ZUR HERSTELLUNG VON DINITROTOLUOL.

Title (fr)
PROCEDE DE PRODUCTION DE DINITROTOLUENE.

Publication
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Application
EP 93914223 A 19930601

Priority
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• US 90021392 A 19920617

Abstract (en)
[origin: WO9325503A1] This invention relates to a process for nitrating toluene to produce dinitrotoluene characterized by a liquid phase nitration characterized in that reaction of anhydrous nitric acid with toluene in a reactor at a reaction temperature of between 20 DEG C and 30 DEG C for a reaction time of less than 15 minutes, said reaction employing a molar ratio of nitric acid plus any water to toluene of between 10:1 and 15:1, said reaction being conducted in the absence of sulfuric acid, and in the absence of any aprotic dipolar solvent during the reaction and in the absence of any aprotic dipolar solvent to halt the reaction, to produce said dinitrotoluene in a product mixture that is free of nitrocresol, followed by vacuum distillation of the product mixture, in the absence of any aprotic dipolar solvent, to remove unreacted nitric acid from said product mixture thereby providing said dinitrotoluene.

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Citation (search report)
• [Y] US 5001272 A 19910319 - MASON ROBERT W [US]
• [Y] US 5099080 A 19920324 - QUAKENBUSH ALLEN B [US]
• [Y] WO 8912620 A1 19891228 - OLIN CORP [US]
• [Y] EP 0108604 A1 19840516 - UNIROYAL INC [US]
• See references of WO 9325503A1

Designated contracting state (EPC)
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WO 9325503 A1 19931223; AU 4396393 A 19940104; AU 665843 B2 19960118; BR 9306554 A 19980915; CA 2138391 A1 19931223; EP 0649400 A1 19950426; EP 0649400 A4 19950214; KR 950701903 A 19950517; RU 2106338 C1 19980310; RU 94046238 A 19961010

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