

Title (en)
NOVEL THIOPHENE COMPOUND AND PROCESS FOR PRODUCING CAFFENOFURAN OR ANALOGUE THEREOF FROM THE SAME

Title (de)
NEUE THIOPHENVERBINDUNG UND VERFAHREN ZUR HERSTELLUNG VON CAFFENOFURAN ODER EINEM ANALOGON DAVON AUS DIESER

Title (fr)
NOUVEAU COMPOSE THIOPHENE ET PROCEDE DE PRODUCTION DE CAFFENOFURANE OU DE SON ANALOGUE A PARTIR DE CELUI-CI

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Application
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Abstract (en)
[origin: EP1854791A1] The present invention provides a novel thiophene compound as a synthetic intermediate that is useful for efficient production of kahweofuran or an analogue thereof. The present invention also provides a process for producing kahweofuran or an analogue thereof using the novel thiophene compound as an intermediate material. Of novel thiophene compounds represented by Formula (1): wherein R 1 is a hydrogen atom or a C 1 -C 4 lower alkyl group; R 2 is a hydrogen atom or an alcohol-protecting group; R 3 is a hydrogen atom, -COR 4 or -C(OH)R 5 (wherein R 4 and R 5 each represent a C 1 -C 4 , lower alkyl group); provided that when R 2 and R 3 are hydrogen atoms, R 1 is not any of a hydrogen atom, methyl group, or n-propyl group; a thiophene compound represented by Formula (2) is reduced and cyclized in the presence of a transition metal catalyst to produce kahweofuran or kahweofuran analogue (3a) shown below: wherein R 1 is a hydrogen atom or a C 1 -C 4 lower alkyl group, and R 4 is a C 1 -C 4 lower alkyl group.

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