

Radical Arylation of Phenols, Phenyl ethers, Furans und Phenylamines

Technology offer TUM 2008-09E14

Description

The following invention describes a new methodology for the synthesis of amino- and hydroxybiphenyls.

The radical arylation can be used for the functionalization of phenols, anilines, phenyl ethers or furans. Aromatic amines or hydroxy groups do not need to be protected.

Customer benefits

Application in the synthesis of customer / tailor-made products or intermediates. Possible replacement of established procedures for large-scale synthesis.

Branche(n)

Pharma, Cosmetics, Agricultural

Schlüsselwörter

Synthesis of amino- and hydroxybiphenyls

Advantages

- Low cost, no need of expensive metal catalysts
- Environmentally friendly, use of water as solvent
- Reaction so far tested in gramm scale
- Quick access to versatile intermediates
- No protective group strategy necessary

State of development

- „Proof of principle“
- Several products synthesized

Applicability

Synthesis of amino- and hydroxybiphenyls

Patent status

DE EP US WO

Possible further support by TUM

Research and development, presentation on the topic

Offer

License, Option

TUM ForTe

The TUM ForTe – Office for Research and Innovation advises researches professionally and comprehensively in matters of national and international research funding and transfer of technology.

TUM ForTe also harbours the staff unit Excellence Initiative

Contact at TUM

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