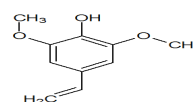


POLYAROMATIC DIMERS: Biosourced Thermoplastics - Bisphenol A Substitute



Description

The technology relates to the synthesis of polyaromatic dimers and to the process for obtaining these dimers from Canolol, ie: 4-vinyl syringol, in two steps: 1 - Obtaining a monomer by glycidylation / 2 - Dimerization of glycidyl compounds obtained in step 1 / NB: canolol is the product of decarboxylation of sinapic acid, contained especially in rapeseed cake.



Type of expected transfer

License or licensing option with R&D program.

Advantages

Reactions mostly catalytic and carried out without solvent / Phenolic Molecules platforms with potential to substitute controversial molecules such as bisphenol A and phthalates and with new chemical structures which may result in materials with far superior thermomechanical properties to those of biosourced thermoplastics based on starch or cellulose / No depolymerization required

Possible applications

Antioxidants, precursors of substitute polymers of bisphenol A: Use in chemistry, cosmetics, health...

Key words

Chemistry / Cosmetics / Health / Soybeans / Biomaterials

TRL Scale

1 2 3 4 **5** 6 7 8 9

Development level

Laboratories:

UMR SPO

Researchers:

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