NEW SYNTHETIC PROCESS OF PHENOLIC DERIVATIVES

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The invention refers to a new process for obtaining **phenol derivatives** through the use of glycerol carbonate by a process does not require any reaction solvent or halogenated compound.

Protection: Italy

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INVENTION

The invention refers to the synthesis of **phenolic derivatives** through the alkylation and consecutive intramolecular cyclization reaction of catechol and glycerol carbonate. The reaction can be carried out in the presence of a homogeneous catalyst or a heterogeneous one, ensuring in any case **good selectivity** and **high yields** of the desired product. Organic carbonates are among the most promising candidates for the phasing-out of conventional harmful solvents and reagents, to be employed in the innovative intermediates development for the pharmaceutical industry and production of lubricants and polymers. In particular, these are the most **environmentally friendly alternative** for carbonylation and alkylation reactions.

ADVANTAGES

- Very good yield;
- Higher selectivity;
- Environmentally friendly process.

APPLICATIONS

- Pharmaceutical industry;
- Lubricants and polymers production.



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