Phenolic compounds

Production of phenolic compounds from lignin





Raw material

Process

End Product

Lignin

Catalytic Hydrogenation

Phenolic compounds

Obtaining phenolic compounds from the depolymerization of industrial lignin (e.g. black liguor lignin or organosoly) by catalytic hydrogenation. After being characterized by advanced analytical tools, the compounds are classified according to their commercial importance and obtained by chromatographic separation and purification processes.

Applications

- + Fine chemical industry (natural antioxidants, paints, varnishes, adhesives, agrochemicals, etc.).
- + Structural reinforcement of polymers (rubbers and plastics).

Advantages

- + Use of renewable and abundant raw material in nature.
- + Lignin depolymerization efficiency above 79%.
- + Use of residues and co-products from the paper/cellulose and furniture industries.

Stage



TRL/MRL 5 - Lab scale

Take this technology to another stage



Research



Make this technology the basis company