

Selective oxidation of glycerol into glyceric or tartaric acids (NT002)

The present invention describes a catalytic process which consists of biobased glycerol oxidation at low temperature in glyceric or tartaric acids.

Keywords: Glyceric acid, Tartaric acid, Selective Oxidation, Glycerol

Intellectual property: WO2015/055942

> Presentation of the technology

- Catalytic oxidation of glycerol with an heterogeneous catalyst in basic medium
- Low temperature process (30-60°C)
- Tuning selectivity to glyceric acid or tartaric acid depending on experimental parameters
- Recyclable heterogeneous catalyst
- Valuable coproducts : glycolic acid, lactic acid, formic acid

> Competitive advantages

- Catalytic oxidation
- Tunable process
- Valuable coproducts
- Oleochemistry

> Applications

- Polymers
- Cosmetic industry
- Pharmaceutical industry
- Phytosanitary products
- Solvent ...

> Development stage

- Technology validation in laboratory environment

1 2 3 4 5 6 7 8 9

> Development opportunities

- Derivatives of glyceric and tartaric acids
- Scaling-up development
- Downstream process development

> Technical specifications

