

Direct synthesis process of polyols from triglycerides (NT012)

The invention allows to produce polyols from unsaturated lipids obtained from vegetable oils (rapeseed, sunflower, castor oils...).

Keywords: Triglycerides, Biphasic catalysis, Polyol, One-pot
Intellectual property: WO2017/001194

> Presentation of the technology

- Functionalization of unsaturated lipids with alcohols groups
- Homogeneous or biphasic (oil/water) catalysis
- "One-pot" cascade reaction : hydroformylation of C=C double bonds and hydrogenation
- Easy down-stream process by liquid-liquid extraction

> Competitive advantages

- High selectivity and conversion
- Low catalyst loading
- Soft conditions
- "One-pot" synthesis
- Recyclable catalyst
- Oleochemistry

> Applications

- Polymers
- Plasticizers
- Surfactants
- Chemical intermediates...

> Development stage

- Technology validation in relevant environment
- Samples available

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

> Development opportunities

- Scaling-up development
- Extension of product line
- Partnerships for product development

> Technical specifications

