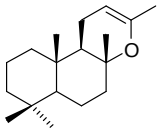
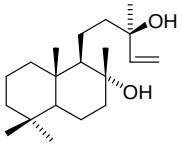
a 2012 0036

The invention deals with a process for producing sclareoloxide (1) – a compound of great utility as ingredient of different aromatization compositions, as well as intermediate in the synthesis of other valuable odorants of terpenic structure.
The readily available labdanic diterpenoid sclareol (2), which is a by-product of sage (*Salvia sclarea* L.) essential oil production, is used as raw material.




**1**




**2**

The process includes a single operation of oxidative degradation of sclareol lateral chain on ozonolysis in the presence of a co-oxidant catalyst in a homogeneous acetone-water solvent mixture at a temperature of -20°C…+15°C. Product isolation includes acetone distillation, extraction of the resulting suspension with a suitable solvent, followed by its evaporation at reduced pressure. Catalyst transformation products can be easily isolated from the aqueous phase resulting after extraction and further recycled.
The produced crude sclareoloxide has a purity of at least 97% and can be used without additional purification operations.

Claims: 2