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Methods for Producing Two-Substituted Glycerols Having Various Levels of Protection

The University of Toledo is seeking companies and research organizations interested in licensing technology relating to a method for producing 2-substituted glycerols having various levels of hydroxyl group protection. This is achieved through opening a dihydroxyacetone dimmer in a nonaqueous, non-protic environment with a composition that initially protects both of the liberated 1,3-dihydroxy groups to form di-ether containing ketone monomers which can then be conveniently subjected to ketone addition reactions and standard chemical functional group manipulations.

Application:

Applicable to glycerol derivatives that are of interest for pure and applied chemical investigations as well as for the development of commercially significant manufacturing processes.

Advantages:

Provides a 2-substituted glycerol in a more expeditious, higher yielding manner while keeping costs down.

Protected by issued patent:

6,255,540

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