

Method for the preparation of polymethacrylates

About the invention

The subject of this proposal is a method for the homogeneous coordination polymerisation of polar methacrylate monomers, selected from 2-(diethylamino)ethyl methacrylate, hereinafter referred to as DEAEMA, and triethylene glycol methyl ether methacrylate, hereinafter referred to as TEGMA, using vanadium(IV), niobium(V) or tantalum(V) complexes activated with methylaluminoxane, hereinafter referred to as MAO.

The invention is used in the production of polymethacrylates as materials for the reversible sorption and desorption of CO_2 , materials to aid in the separation of CO_2 and N_2 , gas-switchable optical materials, and components of thermoresponsive systems.

**TRL 4**

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IP protection

The invention is protected by patent application No. **P.457052**, filed with the Polish Patent Office.

Technology readiness level

TRL 4 – Technology validated in laboratory conditions

Possible cooperation

- Licence
- Sale of ownership rights
- Partnership for further research and commercialisation