

Title (en)
PROCESS FOR PREPARING LINEAR, METHYLATED POLYGLYCEROL DERIVATIVES AND THEIR USE FOR FUNCTIONALIZING SURFACES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON LINEAREN, METHYLIERTEN POLYGLYCEROLDERIVATEN UND IHRE VERWENDUNG ZUR FUNKTIONALISIERUNG VON OBERFLÄCHEN

Title (fr)
PROCÉDÉ DE FABRICATION DE DÉRIVÉS DE POLYGLYCÉROL LINÉAIRES ET MÉTHYLÉS ET LEUR UTILISATION POUR LA FONCTIONNALISATION DE SURFACES

Publication
EP 2044141 A1 20090408 (DE)

Application
EP 07729876 A 20070604

Priority
• EP 2007055489 W 20070604
• DE 102006027125 A 20060602

Abstract (en)
[origin: WO2007141248A1] The invention relates to a process for preparing linear , methylated polyglycerol derivatives which are based on glycidyl methyl ether and have a defined structure and have a degree of polymerization of from 1 to 1000 and narrow molar mass distributions determined by GPC (gel permeation chromatography) and polydispersities of less than 2, preferably less than 1.1 (PS standard), by ring-opening anionic polymerization of the glycidyl methyl ether in the presence of a hydrogen-active starter compound and a basic catalyst. In particular, the invention relates to polymers of the general formula I. The invention also provides for the use of these linear, methylated polyglycerol derivatives for functionalizing any surfaces. Thus, surfaces which have a coating comprising the novel polyglycerol derivatives have excellent protein-resistant properties.

IPC 8 full level
C08G 65/08 (2006.01)

CPC (source: EP)
A61L 27/34 (2013.01); **C08G 65/26** (2013.01); **C08G 65/329** (2013.01)

Citation (search report)
See references of WO 2007141248A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
DE 102006027125 A1 20071206; EP 2044141 A1 20090408; WO 2007141248 A1 20071213

DOCDB simple family (application)
DE 102006027125 A 20060602; EP 07729876 A 20070604; EP 2007055489 W 20070604