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(71) Applicant *(for all designated States except US)*: **DOW GLOBAL TECHNOLOGIES INC.** [US/US]; Washington Street, 1790 Building, Midland, MI 48674 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **WALLINGFORD, Ross, A.** [US/US]; 4 Appaloosa Lane, Scott Depot, WV 25560 (US). **TUROWSKI, Maciej** [PL/US]; 1705 Bauss Court, Midland, MI 48642 (US).

(74) Agent: **ZERULL, Susan, Moeller**; The Dow Chemical Company, Intellectual Property, P.o.box 1967, Midland, MI 48641-1967 (US).

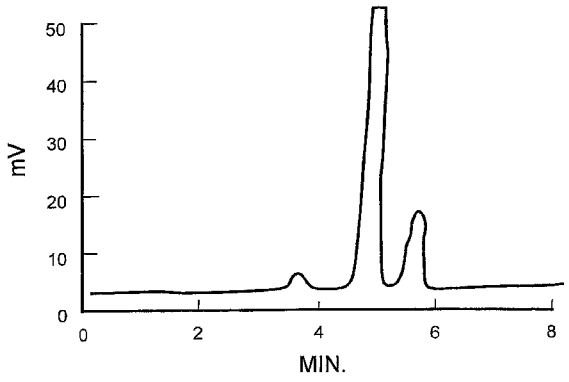
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(54) **Title:** METHOD FOR ANALYZING ACTIVATED POLYETHYLENE GLYCOL COMPOUNDS



(57) **Abstract:** A chemical analysis method for the determination Of $RO(CH_2CH_2O)_nH$, $RO(C_2H_4O)_nA$, and $AO(C_2H_4O)_nA$ in a mixture thereof, wherein R is an alkyl group, A is a functional group for coupling with a surface or a biologically active material or another thing of use and n is an interger greater than 10. The method includes the step of chromatographing a sample of the mixture by liquid chromatography under critical conditions to determine the relative amounts Of $RO(CH_2CH_2O)nH$, $RO(C_2H_4O)_nA$, and $AO(C_2H_4O)_nA$ in the mixture, hi addition a a chemical analysis method for the determination Of $RO(CH_2CH_2O)_nH$, $RO(C_2H_4O)_nA$, and $AO(C_2H_4O)_nA$ in a mixture thereof, wherein R is an alkyl group, A is a functional group for coupling with a biologically active material and n is an interger greater than 10. The method includes two steps. The first step is derivatizing the A groups of the mixture with a derivatizing agent to form a derivatized mixture comprising $RO(CH_2CH_2O)nH$, $RO(C_2H_4O)_nAD$, and $DAO(C_2H_4O)_nAD$, wherein AD is the derivatized A group. The second step is chromatographing a sample of the derivatized mixture by liquid chromatography under critical conditions to determine the relative amounts Of $RO(CH_2CH_2O)_nH$, $RO(C_2H_4O)_nAD$,and $DAO(C_2H_4O)_nAD$ in the derivatized mixture.

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