

Title (en)

POLYMER-BOUND FLUOROPHORES AS OPTICAL ION SENSORS

Title (de)

POLYMER-BINDUNG FLUOROPHOREN ALS OPTISCHE IONENSSENSOREN

Title (fr)

FLUOROPHORES A LIAISON POLYMERES UTILISES EN TANT QUE CAPTEURS OPTIQUES D'IONS

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Application

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Abstract (en)

[origin: WO9711067A1] The invention relates to compounds of formula (I), (IIa) or (IIb), wherein R1, R2, R5 and R6 are each independently of one another hydrogen, -SO2-(C1-C6)alkylphenyl, C1-C30alkyl, C1-C30alkyl-CO- or a radical of formula -(CnH2n-O-)m-R10; R3 is hydrogen or -SO2-(C1-C6)alkylphenyl; R4 and R7 are C1-C30 alkylene or a radical of formula -(CnH2n-O-)m-R10; Z is a functional group which is selected from the group consisting of -OH, -SH, -NH2, -COOH, -NCO, -CO-NR8YR9Y, -NH-CO-CH=CH2, -NH-CO-C(CH3)=CH2; R8 and R9 are each independently of the other C1-C30alkylene; R10 is a direct bond or C1-C12alkylene; n is a number from 2 to 6, and m is a number from 1 to 10, with the proviso that the total number of carbon atoms is at most 30; and Y is -OH or -SH. The compounds are used as comonomers for the preparation of copolymer membranes for plasticiser-free ion sensors.

IPC 1-7

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IPC 8 full level

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