



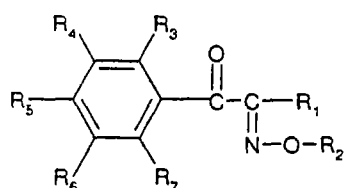
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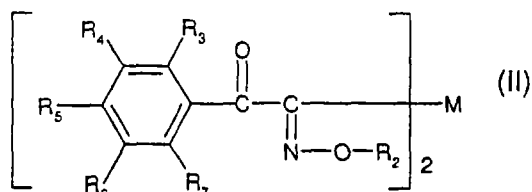
New O-acyloxime photoinitiators

Abstract

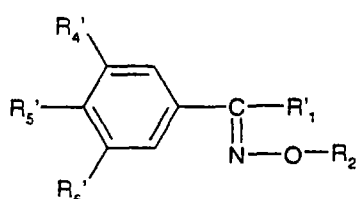
Oximeester compounds of the formulae I, II, III and IV



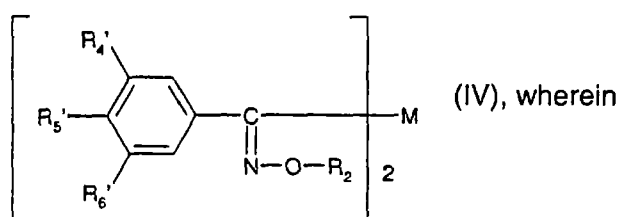
(I)



(II)



(III)



R_1 is phenyl, $\text{C}_1\text{-C}_{20}$ alkyl or $\text{C}_2\text{-C}_{20}$ alkyl optionally interrupted by $-\text{O}-$, $\text{C}_2\text{-C}_{20}$ alkanoyl or benzoyl, or R_1 is $\text{C}_2\text{-C}_{12}$ alkoxycarbonyl or phenoxycarbonyl; R_1' is $\text{C}_2\text{-C}_{12}$ alkoxycarbonyl, or R_1' is phenoxycarbonyl, or R_1' is $-\text{CONR}_{10}\text{R}_{11}$ or CN ; R_2 is $\text{C}_2\text{-C}_{12}$ alkanoyl, $\text{C}_4\text{-C}_6$ alkenoyl, benzoyl, $\text{C}_2\text{-C}_6$ alkoxycarbonyl or phenoxycarbonyl; R_3 , R_4 , R_5 , R_6 and R_7 are hydrogen, halogen, $\text{C}_1\text{-C}_{12}$ alkyl, cyclopentyl, cyclohexyl, phenyl, benzyl, benzoyl, $\text{C}_2\text{-C}_{12}$ alkanoyl, $\text{C}_2\text{-C}_{12}$ alkoxycarbonyl, phenoxycarbonyl or a group OR_8 , SR_9 , SOR_9 , SO_2R_9 or $\text{NR}_{10}\text{R}_{11}$; R_4' , R_5' and R_6' are hydrogen, halogen, $\text{C}_1\text{-C}_{12}$ alkyl, cyclopentyl, cyclohexyl, phenyl, benzyl, benzoyl, $\text{C}_2\text{-C}_{12}$ alkanoyl, $\text{C}_2\text{-C}_{12}$ alkoxycarbonyl, phenoxycarbonyl, or are a group OR_8 , SR_9 , SOR_9 , SO_2R_9 , $\text{NR}_{10}\text{R}_{11}$; provided that at least one of R_3 , R_4 , R_5 , R_6 , R_7 , R_4' , R_5' and R_6' is OR_8 , SR_9 or $\text{NR}_{10}\text{R}_{11}$; R_8 , R_9 , R_{10} and R_{11} are for example hydrogen, $\text{C}_1\text{-C}_{12}$ alkyl, phenyl; are suitable as initiators for the photopolymerization of radically polymerizable compounds.



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