

Title (en)
CARBAMOYLOXYALKYL PHOSPHINIC ACID DERIVATIVES, PROCESS FOR THEIR PREPARATION AND THEIR USE IN THE PREPARATION OF FLAME-RETARDANT FINISHED MATERIALS

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Application
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Abstract (en)
[origin: US4173601A] Carbamoyl-oxyalkyl-phosphinic acid derivatives or mixtures thereof of the formula <IMAGE> I in which Zn is an n-valent, saturated C1-C6-hydrocarbon group, R1 is an optionally branched C1-C6-alkyl group, which group may be substituted by a halogen atom, or a phenyl group, R2 is an optionally branched C2-C7-alkylene group, a is zero to n-1 and n is an integer of from 1 to 4. These compounds can be prepared by reacting phosphonites of the formula II <IMAGE> II in the presence of radical-forming agents, with a carbamate of the formula III CH₂=R₃-O-CO-NH₂III in which R₃ is an optionally branched C2-C7-alkylene group and is identical with the radical R₂ containing one hydrogen atom less. The compounds are used as flame-retardants for textiles.

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