

Title (en)
SECONDARY AMINOSILANES

Title (de)
SEKUNDÄRE AMINOSILANE

Title (fr)
AMINOSILANES SECONDAIRES

Publication
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Application
EP 11793844 A 20111213

Priority
• EP 10195811 A 20101217
• EP 2011072631 W 20111213
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Abstract (en)
[origin: EP2468759A1] Aminosilane (I), is new. Aminosilane of formula (R4-N(R5)-CH(R3)-C(R2)(R1)-CH2-NH-R6-Si(R8) x-(OR7) 3 - x) (I), is new. either R1, R2 : monovalent 1-12C hydrocarbon; or R1+R2 : divalent 4-12C hydrocarbon that is part of optionally substituted carbocyclic ring with 5-8, preferably 6C; R3 : H, 1-12C alkyl, 1-12C arylalkyl or 1-12C alkoxyacetyl, monovalent aliphatic, cycloaliphatic or arylaliphatic residue with 1-20C optionally comprising heteroatoms; either R5 : H or monovalent aliphatic, cycloaliphatic or arylaliphatic residue with 1-20C optionally comprising heteroatoms; or R4+R5 : divalent aliphatic residue with 3-30C that is part of optionally substituted heterocyclic ring with 5-8, preferably 6 ring atoms, where ring comprises N and further heteroatoms; R6 : optionally branched alkylene or cycloalkylene residue with 1-20C optionally with aromatic fractions, and optionally with at least one heteroatom, preferably N; R7 : 1-10C alkyl optionally comprising ether oxygen, where two OR7 groups together form divalent glycolate group that forms ring with Si; R8 : 1-8C alkyl; and x : 0-2. Independent claims are also included for: (1) an iminosilane of formula (R4-N(R5)-CH(R3)-C(R2)(R1)-CH=N-R6-Si(R8) x-(OR7) 3 - x) (II) that is hydrogenated for producing (I); (2) preparing (II) comprising condensing at least one aminosilane of formula (H2N-R6-Si(R8) x-(OR7) 3 - x) (III) with at least one aldehyde of formula (O=CH-C(R1)(R2)-CH(R3)-N(R5)-R4) (IV); (3) an adduct obtained from the reaction of at least one amino silane (I) with at least one compound-a preferably comprising at least one, at least two reactive groups, where the reactive groups comprise isocyanate, isothiocyanate-, cyclo carbonate-, epoxide-, episulfide-, aziridine-, acryl-, methacryl-, 1-ethynylcarbonyl-, 1-propynylcarbonyl-, maleimide-, citraconimide-, vinyl-, isopropenyl- or allyl groups; (4) a compound with at least one silanol group of formula (-Si(R8) x(OH) n-(OR7) 3 x n) (IX) obtained from at least partial hydrolysis of at least (I) or at least (II) or at least one adduct; (5) a composition comprising at least (I), at least (II) and/or at least one adduct; and (6) a moisture-curing composition comprising at least one silane-functional polymer as mentioned above and at least one additional component. n : 1-3, where n is not > (3-x).

IPC 8 full level
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CPC (source: EP US)
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