

Title (en)
CONTINUOUS PRODUCTION OF ORGANOSILANES

Title (de)
KONTINUIERLICHE HERSTELLUNG VON ORGANOSILANEN

Title (fr)
PRODUCTION CONTINUE D'ORGANOSILANES

Publication
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Application
EP 03735613 A 20030612

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Abstract (en)
[origin: DE10232663C1] Continuous production of (cyclo)alkylsilanes (I) comprises continuous reaction of the corresponding tri-substituted-silylhydride (II) with a (cyclo)alkene (III) in the presence of a bis(chloro-iridium-diene) compound (IV) as catalyst and free diene as cocatalyst at 30-200 degreesC and 0.11-50.0 MPa. Continuous production of (cyclo)alkyl-silanes (I) comprises continuous reaction of the corresponding tri-substituted-silyl hydride (II) with a (cyclo)alkene (III) in the presence of a bis(chloro-iridium-diene) compound (IV) as catalyst and free diene as cocatalyst at 30-200 degreesC and 0.11-50.0 MPa. R₆R₅CH-CH(R₄)-SiR₁R₂R₃ (I) HSiR₁R₂R₃ (II) R₆R₅C=CHR₄ (III) ((Diene)IrCl)₂ (IV) R₁, R₂, R₃ = 1-18 C (halo)hydrocarbyl, chlorine or 1-18 C alkoxy; R₄, R₅, R₆ = H, 1-18 C hydrocarbyl (optionally substituted by F, Cl, OR, NR₂, CN or NCO), Cl, F or 1-18 C alkoxy or 2 of these groups and the attached C atom(s) form a cyclic group; R = H or 1-18 C hydrocarbyl; Diene = a 4-50 C hydrocarbon compound with at least 2 C=C double bonds, optionally substituted by F, Cl, OR, NH₂, CN or NCO.

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