

Title (en)

METHOD FOR PRODUCING ORGANICALLY MODIFIED, PERMANENTLY HYDROPHOBIC AEROGELS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ORGANISCH MODIFIZIERTEN, DAUERHAFT HYDROPHOBEN AEROGELN

Title (fr)

PROCEDE POUR LA FABRICATION D'AEROGELS DURABLEMENT HYDROPHOBES MODIFIES ORGANIQUEMENT

Publication

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Application

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Abstract (en)

[origin: DE19648797A1] The invention relates to a method for producing organically modified aerogels with permanently hydrophobic surface groups, wherein a) a lyogel is provided; b) the lyogel provided in step (a) is washed with an organic solvent; c) the surface of the gel obtained in step (b) is silylated; and d) the silylated surface gel obtained in step (c) is dried. The invention is characterized in that a disiloxane of the formula (I) $R_3Si-O-SiR_3$ is used as silylating agent in step (c), wherein the radicals R mean individually, being the same or different, either a hydrogen atom or a non-reactive organic linear, branched, cyclic, saturated or unsaturated, aromatic or heteroaromatic radical.

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