

Title (en)

A METHOD FOR THE SYNTHESIS OF A BIVALENT TIN OXY-HYDROXIDE ADSORBENT FOR THE REMOVAL OF HEXAVALENT CHROMIUM FROM WATER, PARTICULARLY DRINKING WATER, THE ADSORBENT AND ITS USE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES BIVALENTEN ZINNOXYHYDROXIDADSORBENS ZUR ENTFERNUNG VON SECHSWERTIGEM CHROM AUS WASSER, INSBESONDERE TRINKWASSER, ADSORBENS UND DESSEN VERWENDUNG

Title (fr)

PROCÉDÉ POUR LA SYNTHÈSE D'ADSORBANT D'OXY-HYDROXYDE D'ÉTAIN BIVALENT POUR L'ÉLIMINATION DE CHROME HEXAVALENT À PARTIR D'EAU, EN PARTICULIER D'EAU POTABLE, ADSORBENT ET SON UTILISATION

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Application

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Abstract (en)

[origin: WO2017109521A1] The present invention refers to a method for the synthesis of an adsorbent which is realized by the production of a bivalent tin oxy-hydroxide $[\text{Sn}_x\text{O}_y(\text{OH})_z]$, with $1 < x < 6$, $0 < y < 4$ and $0 < z < 4$, into a two-stage continuous flow reactor and a pH range 2-12. The material can be applied for the removal of hexavalent chromium, bromate, chlorate and perchlorate ions in drinking water treatment units for house, municipal and industrial use. The invention also relates to its adsorbent, resp. the use thereof.

IPC 8 full level

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