

Title (en)
METHOD FOR PURIFYING METHANIDE ELECTROLYTES (II)

Title (de)
VERFAHREN ZUR AUFREINIGUNG VON METHANID-ELEKTROLYTEN (II)

Title (fr)
PROCEDE DE PURIFICATION D'ELECTROLYTES (II) DE METHANIDE

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Application
EP 00922632 A 20000413

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Abstract (en)
[origin: DE19919347A1] The invention relates to a method for preparing organic methanide electrolytes of the formula (I): $M_2[R_1-SO_2-(CF_2)_n-SO_2-R]$, wherein R means $C(SO_2RF)_2$, $N(SO_2RF)$, O and R_1 means $C(SO_2RF)_2$, $N(SO_2RF)$ in a quality sufficient for the use in electrochemical cells in batteries. The method comprises the following steps: (i) reacting a methanide of the formula (I) with concentrated sulphuric acid and fractionally rectifying the obtained free acids of said methanide. (ii) Reacting the product of the formula (I), whereby said product is obtained in (i), with $M=H$ with phosphorus pentaoxide above the melting point followed by subsequent fractioned rectification. (iii) Receiving the product from (ii) in an aprotic, organic solvent and reacting with metallic Li, Na, K, Rb, Cs, Mg, Ca, Sr or Ba or the chlorides or hydrides thereof to form the corresponding metal methanides of the formula (I) and optionally removing excess reagent, whereby lithium alkyl can be used for $M=Li$.

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