

Title (en)

A METHOD FOR PRODUCING AN IONIC LIQUID

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER IONISCHEN FLÜSSIGKEIT

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN LIQUIDE IONIQUE

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Application

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Priority

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Abstract (en)

The present invention relates to a method for the electrochemical production of an aprotic ionic liquid of a cation and a halide based anion X - wherein a reaction mixture containing a solvent, a supporting electrolyte, an anion source and a reactant which responds to formula $R' - m - Y - 1 - (CR) - n - Y - 2 - R'' - p$ wherein - Y 1 and Y 2 may be the same or different and are selected from the group of N, P and S - m and p may be the same or different and may be 2 or 3, - all R' may be the same or different, all R'' may be the same or different, R' may be the same as or different from R'' and may, independently of each other be H, a straight chain or a branched saturated alkyl group, a cyclic alkyl group or an aromatic hydrocarbon moiety - At least one R next to Y 1 is CH₂ - And n is at least 1, preferably at least 2, more preferably maximum 10, most preferably n is 1, 2 or 3, wherein Y is N, P or S is subjected to an anodic electrochemical potential to cause oxidative electrolysis of the reactant, wherein the supporting electrolyte simultaneously functions as anion source and comprises a salt of the halide ion X -, selected from the group of fluoride, chloride, bromide or iodide.

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