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(54) **Title:** PROCESS TO PREPARE A COMPOSITE IONIC LIQUID

(57) **Abstract:** The present invention provides a process to prepare a composite ionic liquid, the process at least comprising the steps: (a) mixing an ammonium salt and a solid aluminium salt to obtain a first mixture; (b) stirring under heating the first mixture of step (a); (c) adding to the first mixture of step (b) one or more solid metal salts to obtain a second mixture, wherein the metal salts are selected from halides, sulfates, or nitrates of aluminium, gallium, copper, iron, zinc, nickel, cobalt, molybdenum and platinum; (d) stirring under heating the second mixture of step (c); (e) adding to the second mixture of step (d) a hydrocarbon to obtain a third mixture; (f) stirring under heating the third mixture of step (e) until the solids of the aluminium salt of step (a), and the solids of the metal salts of step (c) disappear and the mixture is converted into a composite ionic liquid; and (g) cooling the composite ionic liquid of step (f).

