

Method for preparing a composite sorbent based on layered double hydroxides (LDH), where previously synthesized LDH in an amount of 30 to 70 mass % of the organic component is dispersed in an aqueous solution of a mixture of unsaturated organic monomers and catalyzers, followed by their further polymerization at a temperature of 70-80 °C for 2-3 hours to form a composite polymeric hydrogel sorbent.