a 2018 0066

The invention relates to coordination chemistry, namely to a coordination polymer of cobalt(II) with the Schiff base - 2,6-diacetylpyridine bis(isonicotinoylhydrazone), which has adsorption properties.
According to the invention, claimed is 2,6-diacetylpyridinebis(isonicotinoylhydrazona-to)(2-)cobalt(II)−water(1/5.75) coordination polymer of the formula $\{[Co(L)]\cdot 5.75H_2O\}_n$, produced in solvothermal conditions at a temperature of 120°C, for 48 hours, in a dimethylformamide/methanol solvent mixture. The polymer has a porous structure with a specific surface of 841 m^2/g calculated according to the BET equation and has adsorption properties.

Claims: 2
Fig.: 5