

## Amidoxime polymers-copper complexes.

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### Streszczenie

The aminolysis of nitrile groups in macroporous acrylonitrile-divinylbenzene copolymers leads to amphoteric ion exchange resins with 1.0 - 3.3 mmol/g amidoxime groups content. The starting copolymers were synthesized from the same monomer mixture, but the composition of diluents used were different. The resulting polymers with amidoxime groups have different sorption of Cu(II) ions, the highest values between 1.3 and 3.5 mmol/g at pH 5. EPR and IR spectra were used to indicate the formation of the complexes between Cu(II) ions and amidoxime polymers. On the basis of the EPR parameters structure of complexes formed at different pH and Cu(II) concentration was postulated.

### Adres publiczny

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