



Nickel(II) complexes of hydroxamic analogues of aminoacids.

Autorzy

Barbara Kurzak

Wojciech Bal

Henryk Kozłowski

Rok wydania

1990

Czasopismo

Journal of Inorganic
Biochemistry

Numer woluminu

38

Strony

9-16

DOI

10.1016/0162-
0134(90)85002-E

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Potentiometric and spectroscopic data have been used to establish the coordination equilibria in systems containing Ni(II) and hydroxamic derivatives of the aminoacids His, Ala, Leu, and Sar. The main binding sites are the amino and deprotonated hydroxamic nitrogens, and the symmetry around metal ion is square-planar. The presence of the strong binding sites in the aminoacid side-chain considerably influence the binding equilibria. In the case of the histidine hydroxamic acid analogue, the imidazole nitrogen is a competitive donor, and the ligand remains tridentate up to pH ca. 9. The deprotonation of oxygen of a hydroxamic moiety leads, however, to the square-planar complex with {NH₂, N⁻} coordination.

Adres publiczny

[https://doi.org/10.1016/0162-0134\(90\)85002-E](https://doi.org/10.1016/0162-0134(90)85002-E)

Strona internetowa wydawcy

<http://www.elsevier.com>