

Binding ability of pesticides. X-ray, spectroscopic and polarographic studies of the Cu(II) interaction with acifluorfen.

Autorzy

Henryk Kozłowski

A. Pusino

J. Świątek

Jan Spychała

Tadeusz Głowiak

Giovanni Micera

C. Gessa

Rok wydania

1990

Czasopismo

Journal of Agricultural and
Food Chemistry

Numer woluminu

38

Strony

1989-1992

DOI

10.1021/jf00100a023

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The copper(II) complexes formed by the herbicide Acifluorfen [5- [2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoic acid] in aqueous solution have been studied by polarographic techniques. The herbicide binds the metal ion acting mainly as a carboxylic ligand, although the simultaneous involvement of the nitro group is suggested by the value of the measured stability constant. Rather insoluble complexes having a dimetallic structure of the tetra⁺-acetatodiaquadicopper(II) type, as determined by single-crystal X-ray diffraction, precipitate from more concentrated solutions.

Adres publiczny

<https://doi.org/10.1021/jf00100a023>

Strona internetowa wydawcy

<https://www.acs.org/content/acs/en.html>

Plik został wygenerowany dnia 2026-10-08 01:13:37

Adres w repozytorium <https://old.chem.uni.wroc.pl/pl/repozytorium/-st5Ytg>.