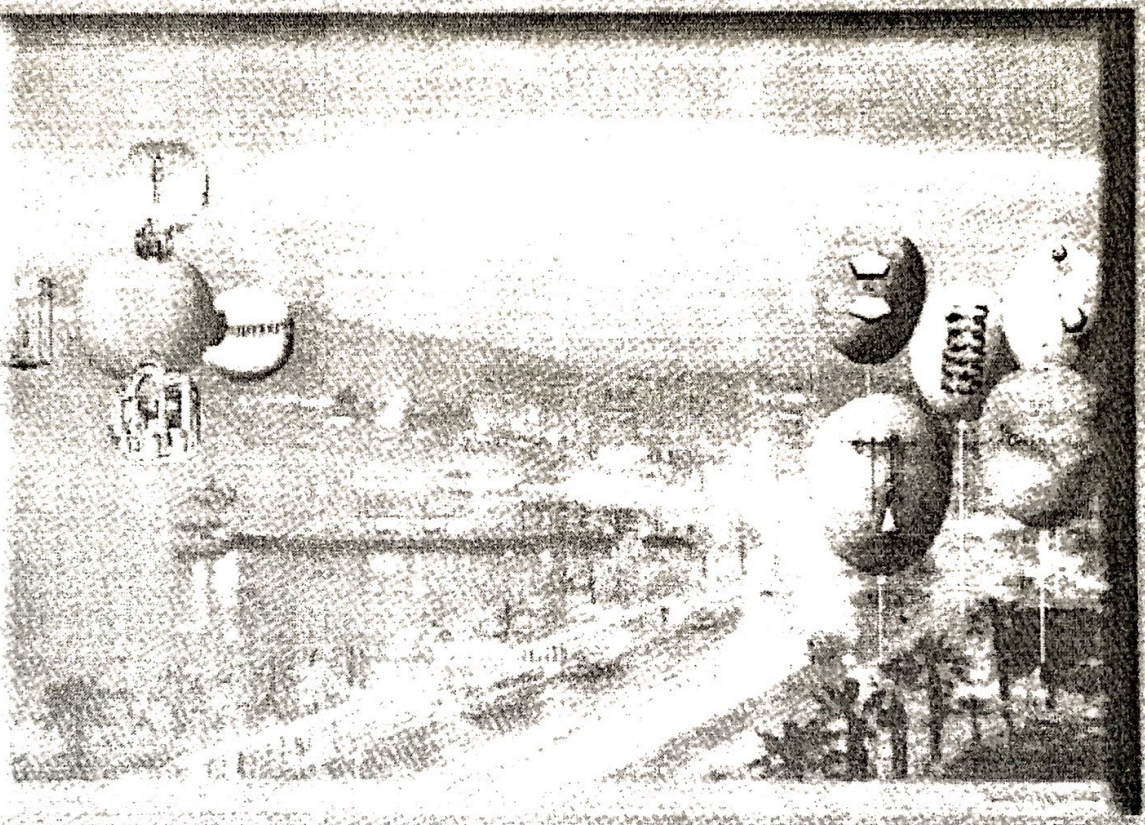
XX.

ULUSAL KİMYA KONGRESİ



Kitap 2005

BİLDİRİ ÖZETLERİ

EBİLTEM

TÜBİTAK

THE SYNTHESIS OF (1R,2R)-1,2-BIS-(5-(4-HYDROXY-NAPHTHALEN-1-YLAZO)-[1,3,4]THIADIAZOL-2-YL)-ETHANE-1,2-DIOL

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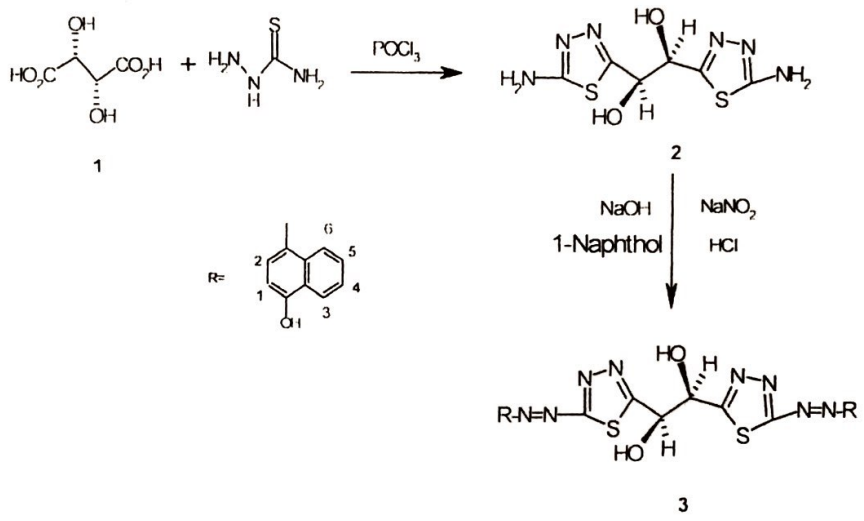
The 1,3,4-thiadiazole ring is associated with diverse biological activities probably by virtue of incorporating a toxophoricts –N=C-S- linkage, the importance of which has been well stressed in many pesticides [1]. Various 2-amino/substituted-amino-1,3,4-thiadiazoles and their schiff bases have recently received significant importance because of their diverse biological properties [2].



(Şema 1)

In this study, (1R,2R)-1,2-bis-(5-amino-1,3,4-thiadiazol-2-yl)ethane-1,2-diol **(2)** was synthesized by using (2R,3R)-(+)-Tartaric acids **1** as start compound. Then the diazo component **3,** was obtained from **2** and 1-Naphthol. In addition, the structures of the synthesized compound **2** and **3** were confirmed by elemental analyses, IR, ^{1}H-NMR and ^{13}C-NMR spectra.

References

1- F. Suzuki, I. Kawakami, S. Yamamoto, Y. Kosai, . *Japan kokai,* 7776432 **1977**; *Chem. Abstr,* **1978,** *88,* 100351.

2- H. Singh, L. D. S. Yadav, *Agri. Biol. Chem.* **1976,** *40*, 759.