

Turkish Journal of Chemistry


Turkish Journal

of

Chemistry

Voltammetric Determination of Thioridazine Hydrochloride

İnci BİRYOL, Saadet DERMİŞ
Ankara University, Faculty of Pharmacy,
Division of Analytical Chemistry,
06100 Ankara-TURKEY

 [Keywords](#)
[Authors](#)



chem@tubitak.gov.tr

[Scientific Journals Home](#)
[Page](#)

Abstract: This study describes the optimal conditions for the determination of Thioridazine HCl (Tz-HCl) in 0.2 M sulphuric acid by voltammetry using ruthenium (Ru), platinum (Pt) and glassy carbon (GC) electrodes. A new and sensitive method is described for electrochemical determination of Tz-HCl in the concentration range $5 \cdot 10^{-5}$ - 10^{-3} M (20.35 - $407 \mu\text{gml}^{-1}$); $6 \cdot 10^{-4}$ - 10^{-2} M (244.2 - $4070 \mu\text{gml}^{-1}$); 10^{-4} - 10^{-3} M ($40,7$ - $407 \mu\text{gml}^{-1}$), with Ru, Pt and glassy carbon electrodes, respectively. The method was applied successfully to the determination of Tz-HCl in pure form or incorporated in their representative pharmaceutical preparations. The precision of the assay was comparable with that of the official assays.

Key Words: Thioridazine hydrochloride; voltammetry; ruthenium, platinum, glassy carbon electrodes.

Turk. J. Chem., **22**, (1998), 325-334.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Chem..vol.22.iss.4.](#)