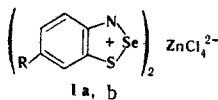


BENZO-1,2,3-THIASELENAZOLIUM SALTS

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We have found that the action of selenous acid in acetic or formic acid on o-aminothiophenols readily forms benzo-1,2,3-thiaselenazolium salts (I) (yields 28-54%). These new heterocyclic cations, which are the 2-selena analogs of the Hertz salts, crystallize well in the form of double salts with zinc chloride and



I a R=Cl; b R=CH₃O

in the form of perchlorates. Their structure is shown unambiguously by their PMR spectra in which multiplets of aromatic protons of the ABX type are seen. The downfield shift of the signals of the protons, and also the deeper coloration of the compounds as compared with the Hertz salts, shows the greater transfer of charge into the benzene nucleus. UV spectrum, λ_{\max} , nm (log ϵ): (Ia) 445 (3.59); (Ib) 475 (3.92).

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