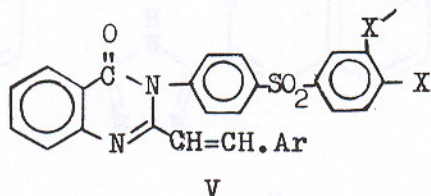
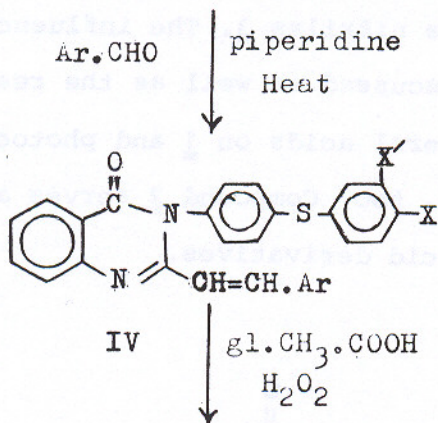
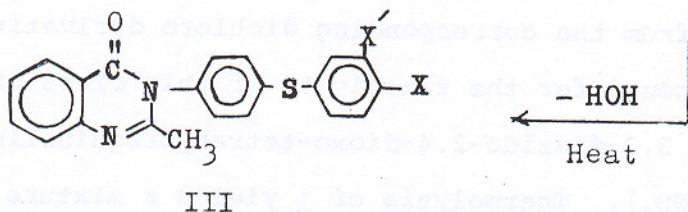
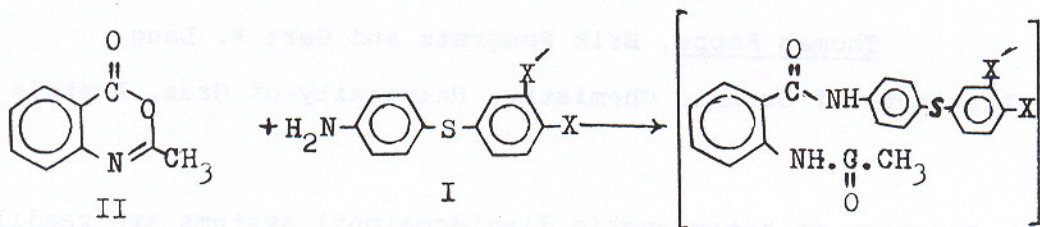


SYNTHESIS OF SOME NEW DIARYLSULPHIDES AND DIARYLSULPHONES
CONTAINING QUINAZOL-4-ONE MOIETYM.A. ABBADY, M.M. ALI and M.M. KANDEELChemistry Department, Faculty of Science, Assiut University
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In continuation of our work on the medically important diarylsulphides and diarylsulphones. It was appear quite interest to incorporate these molecules into the well known antimicrobial quinazolone nucleus. Thus, 4-amino, 4'-nitrodiphenylsulphide and 4-amino-2'-nitrodiphenyl sulphide (I) were smoothly condensed with 2-methyl-3,4-benzoxaz-4-one (II) to produce the corresponding 2-methyl-3-diphenylsulphidoquinazol-4-one (III). The condensation was achieved, nearly quantitative, by heating the reactants over just its melting points for 10 min. with the elimination of water. Generally this condensation took place via the adjoining mechanism. 2-Styryl-3-diphenylsulphido-quinazol-4-ones (IV) were prepared by heating (III) with the appropriate aromatic aldehydes using piperidine as a basic catalyst, compounds (IV) oxidized easily by $\text{H}_2\text{O}_2/\text{gl. acetic acid}$ mixtures to produce the corresponding sulphones (V). The constitution of the prepared products is discussed in the light of I.R. and U.V. spectra.



Ia, IIIa, IVa & Va = X' = H , X = NO₂

Ib, IIIb, IVb & Vb = X' = NO₂ , X = H