A NOVEL SPIRO SYSTEM: 4',7'-DIHYDRO-8'-PHENYL SPIRO [3H-INDOLE-3.6'-[PYRAZOLO(3,2-d)-1,3,5-THIADIAZEPINE]]-2,3'(1H) DIONE

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The reaction of 3-(4-phenylpyrazolylimino)indol-2-one (I) with mercaptoacetic acid has been investigated in view of two different reaction possibilities, viz. (a) attack by carboxyl group at imino nitrogen atom forming a thiszolidine ring at C-3 of indole nucleus (II) or (b) attack at NH of pyrazole ring affording a thiadiazepine system (III). The attack is favoured at NH of pyrazole ring leading to the formation of a novel compound which has been identified as 4',7'-dihydro-8'-phenyl spiro[3H-indole-3,6'-[pyrazolo (3,2-d)-1,3,5-thiadiazepine]]-2,3'(1H) dione on the basis of elemental analyses and spectral studies.