

**BASE-CATALYZED RING OPENING REACTIONS OF
-3-ARYLIDENE-5-(2-TETRALYL)SPIROFURAN-
3(2H)-2-ONES AND REACTION OF 6-(ARYL)-3-
(2H)PYRIDAZINONES WITH ARYL DIAZONIUM CHLORIDES**

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Abstract

α -3-Arylidene-5-(2-tetralyl) spirofuran-2-ones IIa-d react with hydrazine hydrate to give IV and V. 3-2-oxo-5-(2-tetralyl)-3(2H)-furylidene-phthalide III reacts with hydrazine hydrate to give VI and VII. III reacts with phenylhydrazine to give VIII. IIa-d reacts with aliphatic amines to give IX which undergoes cyclization to (Xa,b) and with aromatic amines to give (Xc-L). III reacts with aliphatic amines to give (XIa-c). III reacts with aniline to give XII and XIII. Alkaline hydrolysis of II and III give acids (XIV) and (XV) respectively. IIa-d react with ammonium acetate to give (XVI). Ia and b react with hydrazine hydrate to give (XVII). (XVII) reacts with aryl diazonium chloride to give (XVIII).



