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TRANSFORMATIONS OF 1,2,3-BENZOTHIADIAZOLE

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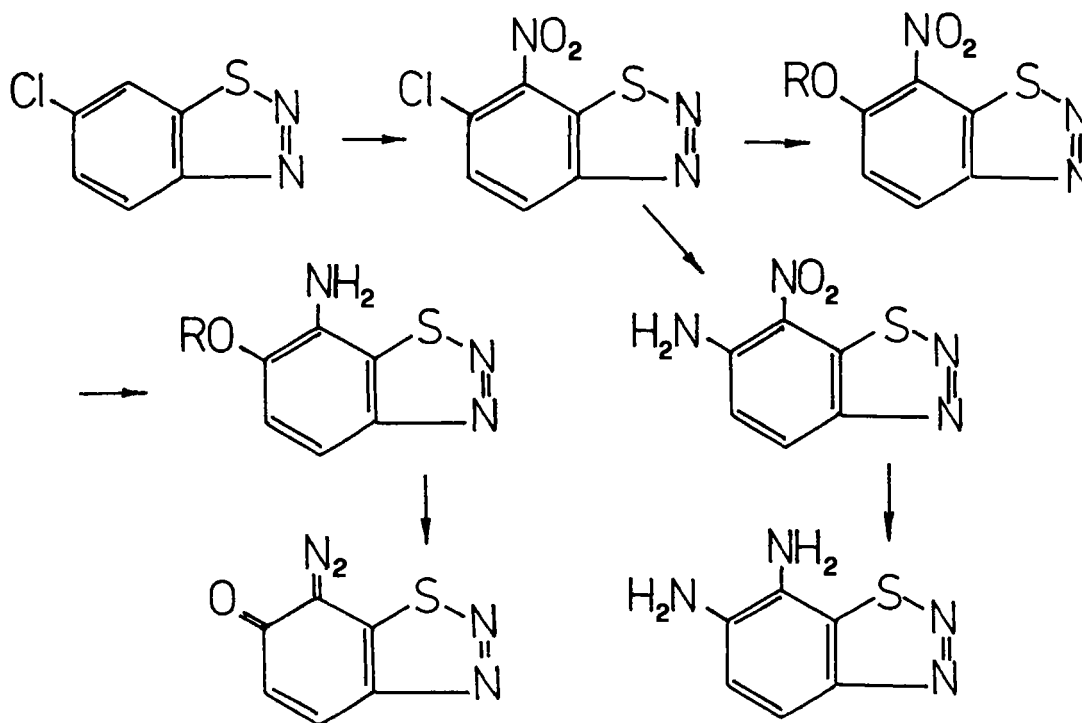
TRANSFORMATIONS OF 1,2,3-BENZOTHIADIAZOLE

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The experimental evidence concerning the nitration of 1,2,3-benzothiadiazole is conflicting. We have found that 4-nitro- and 7-nitro-1,2,3-benzothiadiazole are the major products, while from 6-chloro-1,2,3-benzothiazole 6-chloro-7-nitro-benzothiadiazole(I) was formed as the only product.

The latter compound could be converted into 6-alkoxy-7-nitro derivatives(II), 6-alkoxy-7-amino derivatives III and 6,7-diamino compound IV. Treatment of 6-alkoxy-7-amino-1,2,3-benzothiadiazole (III) with nitrous acid afforded 6-diazo-7-oxo-6,7-



dihydrobenzothiadiazole (V), which could be further converted either thermally or photochemically.

Some other transformations will be discussed.