

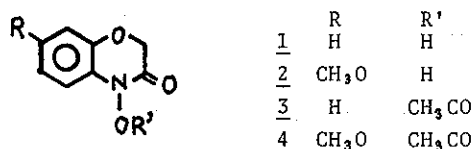
REACTIONS OF 4-HYDROXY-2H-1,4-BENZOXAZIN-3-ONE DERIVATIVES WITH SOME NUCLEOPHILES

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Reactions of 4-hydroxybenzoxazin-3-one(1), 4-hydroxy-7-methoxybenzoxazin-3-one(2) and their O-acetates(3),(4), with various nucleophiles were examined.



1 and its acetates(3) reacted with acetate or chloride under various conditions giving 6- and 7-acetoxy- or chloro-benzoxazin-3-one.

The acetate (4) is very reactive, and rapidly reacted with phenol, cresols, indoles, and ethanthiol. The reaction products were analyzed. Some interesting reaction products(5-9) were shown below. These reactions suggest that phytoalexins, 2,4-dihydroxybenzoxazin-3-one and 2,4-dihydroxy-7-methoxybenzoxazin-3-one, can be electrophilic chemicals.

