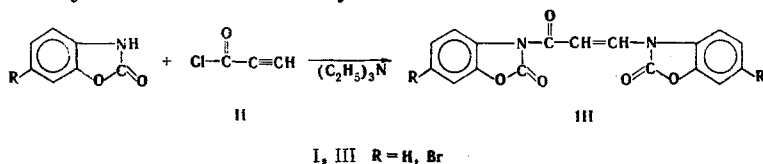


REACTION OF BENZOXAZOLONES WITH PROPIOLYL CHLORIDE

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In the reaction of benzoxazolone (I) with an equivalent amount of propiolyl chloride (II) and triethylamine in benzene at 5–20°C instead of the expected acyl derivatives, we isolated 1,3-bis(2-oxo-3-benzoxazolyl)-1-oxo-2-propene (III), with mp 213–215° (from toluene), in 17% yield, i.e., in addition to acylation, a second molecule of I added simultaneously to the activated acetylenic bond.



The mass spectrum of III contains ion peaks at 322 (M^+), 188, 144, 135, and 116, the relative intensities of which are 48, 100, 15, 44, and 16%, respectively. The PMR spectrum contains doublets of trans-vinyl protons at 7.94 and 8.17 ppm ($J = 14$ Hz) and a multiplet of aromatic protons.

Similarly, 6-bromobenzoxazolone (IV) and II in a 2:1 ratio react to give 1,3-bis(2-oxo-6-bromo-3-benzoxazolyl)-1-oxo-2-propene (V), with mp 250–253° (from m-xylene), in 20.5% yield. The results of elementary analysis of III and V for C, H, and N are in agreement with the calculated values.

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