

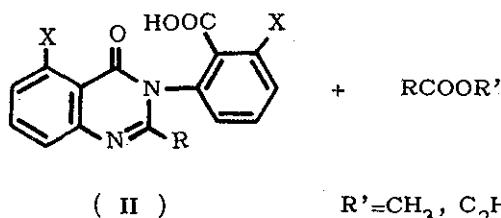
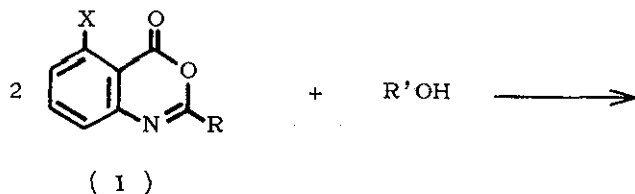
FORMATION OF 2-ALKYL-3-(2-CARBOXYPHENYL)-4-QUINAZOLONE
FROM 2-ALKYL-4-OXO-4H-3,1-BENZOXAZINE BY DIMERIC CONDENSATION

Hiroyuki Asakawa, Mitsuo Matano, and Yutaka Kawamatsu
Chemical Research Laboratories, Central Research Division,

Takeda Chemical Industries, Ltd.

Juso-Nishino-cho, Higashiyodogawa-ku, Osaka

Treatment of 2-alkyl-4-oxo-4H-3,1-benzoxazine (I) with methanol or ethanol gave 2-alkyl-3-(2-carboxyphenyl)-4-quinazolone (II) along with methyl or ethyl alkanoate. The mechanism of this dimeric condensation was discussed on the basis of experimental results.



$\text{R}' = \text{CH}_3, \text{C}_2\text{H}_5, \text{X} = \text{H}, \text{Cl}, \text{R} = \text{alkyl}$