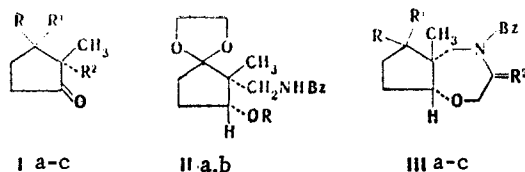


compound (IIIc) (80%), with mp 38-40°C (from methanol), by reduction with lithium aluminum hydride. Compound IIIc was characterized in the form of the 3,5-dinitrobenzoate with mp 120-121°C (from ether).



Ia R+R'=O, R²=H; b R+R'=O R²=CH₂NHBz; c R+R'=OCH₂CH₂O, R²=CH₂NHBz; IIa R=H; b R+R'=O, R²=H; c R=OH, R¹=H, R²=H₂

The structures of the compounds obtained were confirmed by the IR, PMR, and mass-spectral data. The results of elementary analysis of Ib, c, IIa-c, and IIIa-c were in agreement with the calculated values.

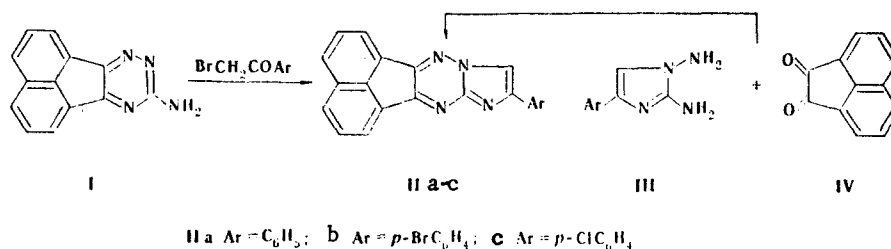
SYNTHESIS OF IMIDAZO[1,2-b]ACENAPHTHENO[1,2-e]-1,2,4-TRIAZINES

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We have established that 2-aryl-substituted imidazo[1,2-b]acenaphtheno[1,2-e]-1,2,4-triazines (II) are formed when 3-aminoacenaphtheno[1,2-e]-1,2,4-triazine (I) is heated with α -halo ketones in refluxing organic solvents (CH₃COOH, butanol). This polyheterocyclic system was previously unknown. The following data are given for the synthesized compounds [melting points, R_f values in a methanol-butanol-water system (25:2:30), UV spectra (dimethylformamide), $\lambda_{\max}$ (log ϵ), and yields in percent]: IIa, 283-284, 0.85, 320.5 (4.53), 324 (4.49), 432 (4.33), 60; IIb, 366-367, 0.66, 320 (4.28), 340 (4.24), 430 (4.07), 69; IIc, 353-355, 0.60, 320.5 (4.48), 342 (4.45), 431 (4.26), 71.

The structure of II was confirmed by synthesis from substituted 1,2-diaminoimidazole (III) and acenaphthenequinone (IV) by refluxing in butanol for 1.5-2 h. The yields of IIa, b, c were 50, 78, and 87%, respectively.



The results of complete elementary analysis of II were in good agreement with the calculated values.

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