point is in agreement with the reported value), and 1-acetoxycyclohexanecarboxylic acid anilide with mp 130-132° (purified by chromatography on Al_2O_3 in $CHCl_3$). IR spectrum of the latter: 3400, 3280, 1720, 1667, 1609, 1540, and 1510 cm^{-1}.

The compositions of the synthesized compounds were confirmed by the results of elementary analysis.

SYNTHESIS OF 3,4,4-TRINITRO-Δ^1-PYRAZOLINES

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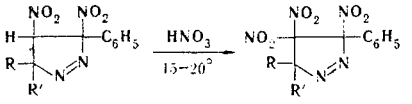
UDC 547.772.2'773'778.2.07

We have found that 3,4-dinitro-Δ^1-pyrazolines with a labile hydrogen atom in the 4 position of the pyrazoline ring are converted to 3,4,4-trinitro-Δ^1-pyrazolines (I-IV) when they are treated with nitric acid (sp. gr. 1.51) at 15-20° for 5-10 h. The products slowly decompose at 20-25° with the evolution of nitrogen oxides to give resinous products. The PMR spectra of I-IV do not contain the signal of a CH group.



I-IV

I $R=R'=C_6H_5$; II R and R' = diphenylene; III $R=C_6H_5$, $R'=p\text{-}BrC_6H_4$; IV $R=CH_3$, $R'=p\text{-}NO_2C_6H_4$

The following compounds were obtained: I, mp 72°, 97% yield; II, mp 116°, 91% yield; III, mp 79°, 93% yield; IV, mp 63°, 94% yield. The compounds melt with decomposition. They were purified by reprecipitation from acetone solution by the addition of water.

The results of elementary analysis of I-IV were in agreement with the calculated values.

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SYNTHESIS OF SUBSTITUTED 6H-DIBENZO[b,d]PYRAN-6-ONE

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We have shown that intramolecular substitution of the o-nitro group to give 6H-dibenzo-[b,d]pyran-6-one derivatives (IIa-d) occurs when o-nitrodiphenylcarboxylic acids (Ia-d) are refluxed in quinoline.

A solution of 0.005 mole of the appropriate acid I was refluxed in 20 ml of quinoline, after which the mixture was cooled and treated with 10% sodium carbonate solution. The sodium carbonate extract was acidified to pH 5 with hydrochloric acid, and the precipitate was removed by filtration, washed with water, and dried to give 6H-dibenzo[b,d]pyran-6-ones II. The following compounds were obtained: (reaction time, yield, and melting point given): IIa,

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