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Journal of Photochemistry

Volume 13, Issue 3, 1980, Pages 233-242

The gas phase photolysis of pentafluoropyridine

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[https://doi.org/10.1016/0047-2670\(80\)85093-3](https://doi.org/10.1016/0047-2670(80)85093-3)

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Abstract

Continuous photolysis of pentafluoropyridine produced the Dewar isomer which underwent rearomatization with a half-life of about 5 days at room temperature. Flash photolysis of pentafluoropyridine gave two transients which decayed with half-lives of 22 ms and 3 ms respectively. Evidence from UV absorption spectroscopy and mass spectrometry indicated that these intermediates were the two isomers of fulvene. The possible reaction pathways involved in the photoisomerization processes of pentafluoropyridine are discussed.



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