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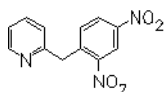
structure (organic substances)

K 9000

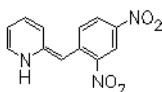
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Photochromism and Thermochromism Driven by Intramolecular Proton Transfer in Dinitrobenzylpyridine Compounds.

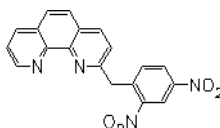
— Photoinduced intramolecular proton transfer in title compound (I) generates blue phototautomer (II), which has a lifetime at 298 K of 4.7 s in ethanol and about 4.6 h in the crystal. Its enamine structure is confirmed by spectroscopic analysis. The proton transfer form in title compound (III) is so efficiently stabilized that for the first time direct determination of the ground state energy difference between the two tautomers is possible by quantitative analysis of the resulting thermochromism. — (CORVAL, A.; KULDOVA, K.; EICHEN, Y.; PIKRAMENOU, Z.; LEHN, J. M.; TROMMSDORFF, H. P.; J. Phys. Chem. 100 (1996) 50, 19315-19320; Lab. Spectrom. Phys., CNRS, Univ. J. Fourier Grenoble I, F-38402 St. Martin d'Heres, Fr.; EN)



I



II



III