STRONG FLUORESCENCE IN A DERIVATIVE OF 2-OXAZOLIN- 5 ONES

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The 2-phenyl-4-(4- methoxy benzylidene) -2-oxazolin-5-one, an important class of hetrocyclic organic molecule, shows strong fluorescence in the ethyl alcohol solution with the excitation of 476.5 nm, 488 nm, 496 nm and 514.5 nm lines of 10 w Ar+ -ion Laser. The photoacoustic spectra and UV-VIS absorption spectra of this organic derivative indicate that the above fluorescence was observed due to singlet-triplet transition. The fluorescence peaks observed at different power and excitation wavelengths indicate the probable laser emission in the above organic derivative.