

It has been reported [1] that the product of the reaction of 3-nitro-2-pentenoic acid with triethyl phosphite followed by UV irradiation is 1-hydroxy-2-ethoxycarbonyl-3-ethylaziridine. This report has been cited in a monograph [2].

However, from the constants reported in [1] and its PMR spectrum, we have identified this compound as the ethylamide $\text{EtNHCOCH}_2\text{COOEt}$, obtained from malonic ester and ethylamine (in ether, 12 h at 20°C), bp 103°C (1 mmHg), mp 37.5°C (pentane-ether, 1:1). PMR spectrum (CDCl_3), δ : 1.08 and 1.21 (each 3H, t, $J = 7.1$ Hz, CH_3), 3.18 (2H, s, CCH_2OC), 3.22 (2H, d.q, $^3J_{\text{CHNH}} = 5.6$ Hz, NCH_2), 4.10 (2H, q, OCH_2), 7.22 ppm (1H, br., NH). The elemental analysis was in agreement with the calculated values. The homolog of this compound [1], from its PMR spectrum, is not the 1-hydroxyaziridine (cf. [3]), but the amide $\text{PrNHCOCH}_2\text{COOEt}$.

The information on 1-hydroxyaziridines is therefore restricted to the following observations. The structure of 1-hydroxy-2,2-bis(methanesulfonyl)aziridine has not been conclusively proved [4]. 1-Hydroxy-2,2-bis(trifluoromethyl)aziridine has been characterized unambiguously [5]. The synthesis of N-hydroxyaziridines by the ozonolysis of 1,2-dialkylaziridines has also been reported [6].

LITERATURE CITED

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