

This was thoroughly washed with water and recrystallized from methyl alcohol.

Calc. for $C_{14}H_{19}O_3N$: C, 67.9; H, 6.6. Found: C, 67.9; H, 6.9.

The unsaturated nitro compound crystallizes in long, yellow needles and melts at $53-54^\circ$. It is readily soluble in the common organic solvents. Its solution in acetone instantly reduces permanganate, and benzaldehyde is a primary oxidation product, showing that the double linkage is next to the phenyl group.

5-Bromobenzyl-3-tertiarybutyl Isoxazole, $C_6H_5CHBrC \begin{array}{c} \text{---} \text{CH} = \text{CC} \\ \text{||} \quad \quad | \\ \text{N} \text{-----} \text{O} \end{array}$

$(CH_3)_3$.—When hydrogen bromide was passed into a solution of the unsaturated nitro compound, the color of the solution rapidly changed from yellow to red owing to separation of free bromine. The solution was saturated at 0° , allowed to stand for several hours in an ice chest and then poured into ice water. This precipitated an oil which solidified when rubbed. The solid was washed with sodium hydrogen sulfite until colorless, and purified by recrystallization from methyl alcohol.

Calc. for $C_{14}H_{16}ONBr$: C, 57.1; H, 5.4. Found: C, 56.8; H, 5.6.

The isoxazole derivative crystallizes in needles and melts at $77-78^\circ$. It is quite stable, being recovered unchanged after having been heated to 150° for 8 hours. The bromine is readily replaced with hydrogen. Thus 0.5 g. of the substance and one g. of zinc dust were heated in acetic acid on a steam bath for half an hour. The solution was filtered into ice water, and the precipitated solid recrystallized from methyl alcohol. It was bromine free, melted at 50° , and the melting point remained the same when it was mixed with a specimen of the lower melting isoxazole which had been obtained by the action of hydroxylamine upon the diketone.

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NOTE.

Correction.—In the review of "Chemistry in Old Philadelphia,"¹ line 20, read: Hare's oxy-hydrogen blow pipe and some of Woodhouse's and some of Hare's other contributions.

F. B. DAINS.

NEW BOOKS.

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¹ THIS JOURNAL, 41, 1315 (1919).