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The NMR spectra were run by W.R. Anderson, Jr., Analytical Research Department, Stanford Research Institute.

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2-Benzoyl-1,2-dihydroisoquinaldamide

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WHILE INVESTIGATING the chemistry of Reissert compounds, it became necessary to prepare 2-benzoyl-1,2-dihydroisoquinaldamide. This was accomplished by treating 2-benzoyl-1,2-dihydroisoquinaldonitrile with 30% hydrogen peroxide. The reaction was analogous to that used by Cobb and McEwen to prepare 1-benzoyl-1,2-dihydroquinaldamide (*1*). The structure was confirmed by reconversion of the amide to the starting material by dehydration with phosphorus pentoxide.

EXPERIMENTAL

2-Benzoyl-1,2-dihydroisoquinaldamide. To a solution of 10.0 grams (0.038 mole) of 2-benzoyl-1,2-dihydroisoquinaldonitrile in 250 ml. of acetone was added 4.0 grams of sodium bicarbonate. This was cooled in a water bath and stirred while 150 ml. of 30% hydrogen peroxide was added over a period of two hours; then six ml. of 5% sodium bicarbonate solution was added. The mixture was stirred for an additional two hours and allowed to stand overnight. The mixture was concentrated to about 150 ml. by distillation and 400 ml. of water added. A tan solid precipitated upon cooling in an ice bath. The solid was filtered, washed with water and dried to yield 3.0 grams (28.3%). Several recrystallizations from ethanol gave a sample of m.p. 232–234°.

ANAL. Calcd. for $C_{17}H_{14}N_2O_2$: C, 73.37; H, 5.03; N, 10.07. Found: C, 73.57; H, 5.12; N, 9.68.

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