

Synthesis of Some Ethyl 3-(Aryldiazenyl)-7-oxo-dihydro-pyrido[2,3-f]quinoxaline-8-carboxylates

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Ethyl 7,8-diamino-1-cyclopropyl-6-fluoro-4-oxo-1,4-dihydroquinoline-3-carboxylate (**6**) and its free acid **7** are prepared by chemical reduction of the respective 7-azido-8-nitroquinoline **5**. Consecutive nucleophilic addition and cyclocondensation reactions of **6** with α -acetyl-*N*-arylhydrazoneoyl chlorides **8a – c** in ethanol and triethylamine are site-selective and yield the corresponding 3-(aryldiazenyl)-2-methylpyrido[2,3-*f*]quinoxalines **10a – c**. Analytical and spectral (IR, MS, NMR) data of **6**, **7**, and **10a – c** are in conformity with the assigned structures.

Key words: 7,8-Diamino-4-oxoquinoline-3-carboxylate, α -Acetyl-*N*-arylhydrazoneoyl Chlorides, Ethyl 7-Oxopyrido[2,3-*f*]quinoxaline-8-carboxylates