

**Synthesis and Antimalarial Properties of 1-Imino  
Derivatives of  
7-Chloro-3-substituted-3,4-dihydro-1,9(2H,10H)-acridin  
ediones and Related Structures.**

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**Abstract**

To improve upon the activity and properties of the 3-aryl-7-chloro-3,4-dihydro-1,9(2H,10H)-acridinediones, a variety of 1-[(alkylamino)alkylene]imino derivatives (3) were prepared and shown to be highly active antimalarial agents in both rodents and primates. Among structural modifications prepared, including N10-alkyl and C2-substituted analogs, removal of the C9 oxygen, and introduction of an imino side chain at C9, the imines of the N10-H acridinediones were the most active compounds obtained. The [3-(N,N-dimethylamino)propyl]imino derivative of 7-chloro-3-(2,4-dichlorophenyl)-3,4-dihydro-1,9(2H,10H)-acridinedione (9aa) proved to be highly active in advanced studies in primates.