

# 1,3-Dihydroxynaphthalene in the Synthesis of Phosphorus-containing Macroheterocycles

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Received January 13, 2005

**Abstract**—Original representatives of phosphacyclophanes on the basis of the unsymmetrical 1,3-dihydroxynaphthalene and phosphorous triamides are synthesized by three different procedures, including dismutation. The different procedures are shown to lead to a single structural isomer exclusively. The dismutation reactions of 1,3-dihydroxynaphthalene and resorcinol bisphosphoramidites are compared. Thio and oxo derivatives of phosphacyclophane systems are synthesized.