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the saturated members of this class of heterocycles: tetrahydropyran, thiane and piperidine, resemble that of acyclic ethers, sulfides, and 2°-amines, and will not be described here.

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aromatic. Pyridine, for example, is an aromatic heterocycle. In the bonding picture for pyridine, the nitrogen is  $sp^2$

-hybridized, with two of the three  $sp^2$  orbitals forming sigma overlaps with the  $sp^2$  orbitals of neighboring carbon atoms, and the third nitrogen  $sp^2$  orbital containing the lone pair.

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found in many natural products. Examples of some nitrogen compounds, known as alkaloids because of their basic properties, were given in the amine chapter.

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