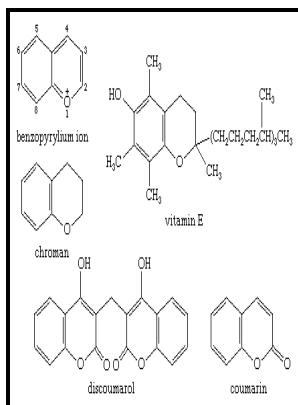


# Six-membered heterocyclic nitrogen compounds with four condensed rings

Interscience Publishers - Fused Heterocyclic Rings



Description: -

- Heterocyclic compounds.

Organonitrogen compounds. Six-membered heterocyclic nitrogen compounds with four condensed rings

- Chemistry of heterocyclic compounds, a series of monographs  
The Chemistry of heterocyclic compounds, a series of monographs  
Six-membered heterocyclic nitrogen compounds with four condensed rings

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Six

Strong nucleophiles will also open the strained ether, as shown by reaction 3b. Pyrrole and Imidazole Pyrrole is obtained commercially by the reaction of furan with ammonia.

## Aromatic Heterocyclic Compounds

As its pyrophosphate derivative, thiamine is a coenzyme for several biochemical reactions, notably decarboxylations of pyruvic acid to acetaldehyde and acetoin. Melatonin N -acetyl-5-methoxytryptamine is released from the pineal gland and has a role in the control of diurnal biorhythms. An example of this approach is the reaction of bicyclic guanidine 123 with 1,3-dibromopropane furnishing the peri-fused product 124 which can be isolated as tetrafluoroborate salt Equation 12.

## Aromatic Heterocyclic Compounds: Reactivity and Orientation

Folic acid folate is N - pteroylglutamic acid ; the number of attached glutamyl residues may be higher.

## 24.10: Heterocyclic Amines

As illustrated below, acid and base-catalyzed reactions normally proceed by reaction 1 , yielding a tetrahydrofuran product. Even for the same aromatic heterocyclic compound, the properties of the 5-membered and 6-membered rings are quite different.

## Formation of Five

Examples of this strategy are summarized in Scheme 15 and Equation 14. Furan is reduced to tetrahydrofuran by palladium-catalyzed.

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