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The heterocycles which show aromatic behavior as in benzene are called the aromatic heterocyclic compounds. These compounds follow the Hückel's rule which states that cyclic conjugated and planar systems having  $(4n+2)$  ? electrons are aromatic. The aromatic nature of five and six-membered

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heterocycles is  
discussed in Sec. 1.

Some simple aromatic

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A heterocyclic compound or ring structure is a cyclic compound that has atoms of at least two different elements as members of its ring(s). Heterocyclic chemistry is the branch of organic chemistry dealing with the synthesis, properties,

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and applications of these  
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Analogously the structural aspect and chemistry of saturated and unsaturated heterocycles with two similar heteroatoms such as diaziridine, diazirine, dioxirane, dithiirane, and with mixed heteroatoms such as oxaziridine, oxathiirane, and thiazirine are also

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delineated. The  
importance of these  
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...

Theophil Eicher studied  
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his Ph.D. under Georg Wittig in 1960. After postdoctoral work at Columbia University, New York, in the laboratories of Ronald Breslow, he habilitated in 1967 at the University of Würzburg under Siegfried Hünig. In 1974 he ...

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Pyrazole is an organic compound with the formula  $C_3H_3N_2$ . It is a heterocycle characterized by a 5-membered ring of three carbon atoms and two adjacent nitrogen atoms. Pyrazole is a weak base, with  $pK_b$  11.5 ( $pK_a$  of the conjugated acid 2.49 at

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25 °C). Pyrazoles are also a class of compounds that have the ring C<sub>3</sub>N<sub>2</sub> with adjacent nitrogen atoms. Notable drugs containing a pyrazole ...

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chemical compounds  
consist of molecules.

The classification of  
such chemical  
compounds is based on  
the structure of these  
molecules, which is  
defined by the type and  
number of atoms as well  
as by the covalent  
bonding within them.

There are two main  
types of structure:

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## **1 The Structure of Heterocyclic Compounds**

- Definition of terms  
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Heterocyclic rings are found in many naturally occurring compounds. Most notably, they compose the core structures of mono and polysaccharides, and the four DNA bases that establish the genetic code. By clicking on the above diagram some other examples of

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heterocyclic natural  
products will be  
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synthesis, structure,  
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Heterocycles are ubiquitously present in nature and occupy a unique place in organic chemistry as they are part of the DNA and haemoglobin that make life possible. The Chemistry of Heterocycles covers an introduction to the topic,

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followed by a chapter  
on the nomenclature of  
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Wittig in 1960. After  
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