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## Structures

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,

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properties, and  
applications of these  
heterocycles..

Examples of  
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compounds include all  
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the majority of drugs,  
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Theophi; Eicher, born  
in 1932 in Heidelberg,  
studied chemistry at  
the University of  
Heidelberg from 1952  
to 1957 and obtained  
his Ph.D. under  
Georg Wittig in 1960.

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After postdoctoral work at Columbia University, New York, in the laboratories of Ronald Breslow, and assistanships in Heidelberg and Würzburg, he habilitated 1967 at the University of Würzburg.

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The chemical reactivity of the saturated members of this class of heterocycles: tetrahydropyran, thiane and piperidine, resemble that of acyclic ethers, sulfides, and 2<sup>o</sup>-amines, and will not be described here.

1,3-Dioxanes and

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dithianes are cyclic acetals and thioacetals. These units are commonly used as protective groups for aldehydes and ketones, as well as synthetic intermediates, and may be hydrolyzed by the action of aqueous acid.

~~Heterocyclic~~

*Page 28/43*

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Heterocycles - cyclic structures in which the ring atoms may include oxygen or nitrogen - can also be 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  $sp^2$

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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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Eight Membered N,O,  
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the chemistry,  
behavior and potential  
of these important  
structures. The book  
presents a practical  
guide to international  
nomenclature,  
including discussions  
of fused ring systems,  
heteroatoms with  
abnormal valences,  
and bridged, spiro  
and polycyclic  
heterocycles.



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in nature and occupy  
a unique place in  
organic chemistry as  
they are part of the  
DNA and

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haemoglobin that  
make life possible.

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an introduction to the  
topic, followed by a  
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nomenclature of all  
classes of isolated,  
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heterocycles. The  
third chapter  
delineates the highly  
strained three

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