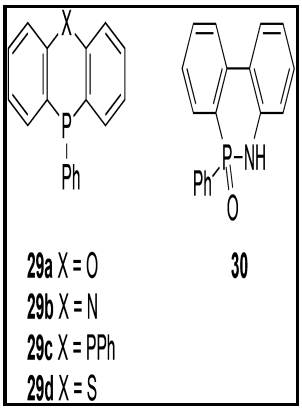
Chemistry of inorganic homo- and hetrocycles

Academic - The chemistry of inorganic homo



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Cyclic compounds.Chemistry of inorganic homo- and hetrocycles
-Chemistry of inorganic homo- and hetrocycles
Notes: Includes bibliographies and index.
This edition was published in 1987

Filesize: 58.49 MB

Tags: #Heterocyclic #Chemistry

“True” Inorganic Heterocycles: Structures and Stability of Group 13−15 Analogues of Benzene and Their Dimers

From the fundamental standpoint, novel structures and new bonding concepts are highlighted, in addition to synthetic approaches.

HOMO and LUMO

The π-electron system of the substituent assists development of positive charge at the adjacent oxirane carbon, directing nucleophilic attack to that site.

Heterocycles

Finally, examples 4 through 7 illustrate reactions of 1,2- and 1,3-oxazole, thiazole and diazole. In the case of thiophene, a sulfur analog of furan, one of the sulfur electron pairs colored blue participates in the aromatic ring π-electron conjugation. It has been suggested that electron pair repulsion involving the vicinal nitrogens destabilizes the neutral base relative to its conjugate acid.

Heterocyclic Chemistry

Bicyclic or polycyclic arrangements are considered when they are closely related to those of monocyclic systems. A consideration of the polar contributors helps to explain the difference between pyrazine and pyrimidine, but the basicity of pyridazine seems anomalous. The focus of this book is monocyclic inorganic ring systems of the p-block elements and the polymers that are, in many cases derived from them.

A Guide to Simple Heterocycles in Organic Chemistry

The second class of HAAs, named aminoimidazoarenes AIAs , are formed in meats cooked at temperatures 150—250°C commonly used in the household kitchen. Typically these complexes follow the 18 electron rule, except for 1st row transition metals that can have electron counts from

15-20 electrons, and lanthanides and actinides that do not follow the rule.

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