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## Investigations in the field of carbene-boron chemistry

By Oliver Steinhof

Grin Verlag Mrz 2011, 2011. Taschenbuch. Book Condition: Neu. 218x149x13 mm. This item is printed on demand - Print on Demand Titel. - Diploma Thesis from the year 2003 in the subject Chemistry - Anorganic Chemistry, grade: 1,0, Technical University of Braunschweig (Institut für Anorganische und Analytische Chemie), course: TU Braunschweig und University of Alabama, 45 entries in the bibliography, language: English, abstract: From a long time ago attempts have been made to isolate carbenes. A big motivation behind the search for a stable carbene was the fact, that oxidation state II is well known for the late members of group 14, germanium, tin and lead. Therefore it should be possible to produce a compound containing a carbon in oxidation state II, which is stable enough to be detected and possibly isolated and characterized. Additionally carbenes may be useful as building blocks in organic syntheses. They form complexes with a wide variety of main group elements and transition metals in both high and low oxidiation states. Many of these complexes are highly efficient homogeneous catalysts. Carbenes are defined as compounds possessing a divalent carbon in their structure. This carbon is bound to two adjacent groups by covalent bonds. It has...



## Reviews

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