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## Phosphorus, Sulfur, and Silicon and the Related Elements

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### A NEW TETRATHIA-ADAMANTANE

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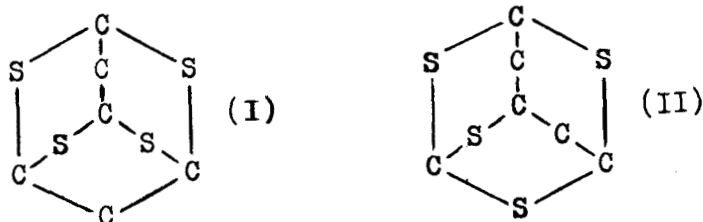
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## A NEW TETRATHIA-ADAMANTANE

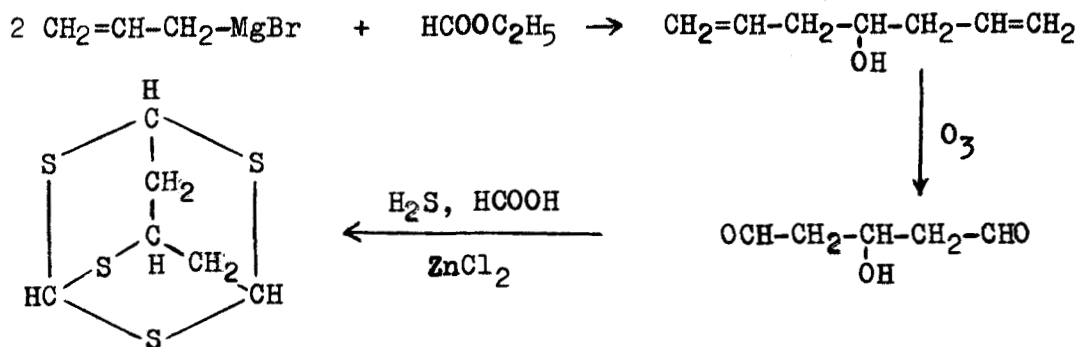
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Two isomeric tetrathia-adamantane ring systems are possible. In system I two three-carbon chains are linked together by the four sulfur atoms. The system II contains a five-carbon chain and a single carbon atom linked to three of the sulfur atoms:



Methylsubstituted derivatives of both systems are known and even the parent compound of I has been described<sup>1</sup>. We have now obtained the parent compound of II by the following reactions:



Six unsubstituted thia-adamantanes are now known. Some of their physico-chemical properties will be discussed.

1. K. Olsson, Arkiv Kemi 26, 435 (1967).