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

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## New Types of Phosphocavitandes

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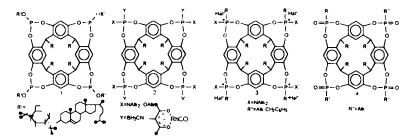
# **New Types of Phosphocavitandes**

VERA I. MASLENNIKOVA, ELENA V. SHKARINA, SVETLANA E. GORIUKHINA, TATIANA K SINICINA, ROMAN V. MERKULOV and EDWARD E. NIFANTYEV

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New types of phosphocavitandes differing in structure of phosphorus surroundings were synthesized and investigated:

- 1. phosphitocavitandes containing at the periphery carbohydrates or steroids substituents.
- 2. tetranuclear complexes of amidophosphito- and phosphitocavitandes with derivatives of Boron and Rhodium (I).
- 3. quasiphosphonium salts of amidophosphitocavitandes
- 4. phoshonates formed upon Arbuzov's alkylation of phosphitocavitandes.



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#### References

 Maslennikova V.I., Shkarina E.V., Vasynina L.K., Lysenko K.A., Antipin M.Yu and Nifantyev E.E., Zhur Obsh. Khim. 68, 379 (1998).