

Isolation and Structural Characterisation of Monoprotonated 1,2-Bis(diphenylphosphino)benzene in its Tetrabromogallate(III) Salt

Marcus Sigl, Annette Schier, Hubert Schmidbaur*

Anorganisch-chemisches Institut der Technischen Universität München,
Lichtenbergstrasse 4, D-85747 Garching, Germany

Z. Naturforsch. **53 b**, 1313–1315 (1998); received August 28, 1998

1,2-Bis(diphenylphosphino)benzene, Tertiary Phosphonium Cation, Crystal Structure, Tetrabromogallate(III)

Hydrolysis of gallium tribromide complexes of 1,2-bis(diphenylphosphino)benzene in toluene solvent affords crystals of the mono-phosphonium salt $[1,2\text{-Ph}_2\text{P}(\text{C}_6\text{H}_4)\text{-PPh}_2\text{H}]^+ [\text{GaBr}_4]^-$. The structure analysis by single crystal X-ray diffraction allows an internal comparison of Ph_2P phosphino and Ph_2PH^+ phosphonium functions.

* Reprint requests to Prof. Dr. H. Schmidbaur.