

structure (solids and liquids)

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Tetraphenylphosphonium Hexaazidoarsenate(V): The First Structurally Characterized Binary As(V)-Azide Species. —

[PPh₄][As(N₃)₆] is prepared from Me₃SiN₃ and [PPh₄][AsCl₆] (CH₂Cl₂, 25 °C, 5 h, inert gas; 71% yield). The compound is characterized by IR, Raman, ¹H, ¹³C, ¹⁴N, ³¹P, and ⁷⁵As NMR spectroscopy. As revealed by single crystal XRD (monoclinic space group C2/c, Z = 4), the structure of the anion [As(N₃)₆][−] consists of an arsenic atom bound to six nitrogen atoms forming a slightly distorted octahedron. — (KLAPOETKE, THOMAS M.; NOETH, HEINRICH; SCHUETT, THOMAS; WARCHHOLD, MARCUS; *Angew. Chem., Int. Ed.* 39 (2000) 12, 2108-2109; Fachbereich Chem., Ludwig-Maximilians-Univ., D-81377 Muenchen, Germany; EN)