

Die Kristallstruktur von Bis(bromotriphenyl)arsen(V)-hexabromotellurat(IV), $[\text{Ph}_3\text{AsBr}]_2[\text{TeBr}_6]$

Crystal Structure of Bis(bromotriphenyl)-arsenic(V)-hexabromotellurate(IV), $[\text{Ph}_3\text{AsBr}]_2[\text{TeBr}_6]$

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Arsenic, Tellurium, Bromo Complex,
Crystal Structure

Yellow-orange single crystals of $[\text{Ph}_3\text{AsBr}]_2[\text{TeBr}_6]$ have been prepared from saturated solutions of Ph_3AsBr_2 and TeBr_4 in acetonitrile and characterized by a crystal structure determination. Space group $R\bar{3}c$, $Z = 12$, lattice dimensions at -70°C : $a = b = 1337.9(2)$, $c = 7953.8(4)$ pm, $R = 0.0691$. The structure consists of discrete ions $[\text{Ph}_3\text{AsBr}]^+$ and nearly perfectly octahedral $[\text{TeBr}_6]^{2-}$.