

Die Kristallstruktur von $[\text{PhMe}_3\text{N}]_4[\text{Pb}_3\text{Br}_{10}]$

Crystal Structure of $[\text{PhMe}_3\text{N}]_4[\text{Pb}_3\text{Br}_{10}]$

Th. Wiest, R. Blachnik* und H. Reuter

Institut für Chemie, Universität Osnabrück, BarbarasträÙe 7, D-49069 Osnabrück.

* Sonderdruckanforderungen an Prof. Dr. R. Blachnik.

Fax: (+49) 0541 969-2370. E-mail: rblachni@rz.uni-osnabrueck.de.

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Crystal Structure, Phenyltrimethylammonium-dekabromotriplumbate

$[\text{PhMe}_3\text{N}]_4[\text{Pb}_3\text{Br}_{10}]$ crystallizes with monoclinic symmetry in the space group $P 2_1/c$ with lattice parameters of $a = 1295.5$, $b = 951.5$, $c = 2294.7$ pm, $\beta = 110.24^\circ$ and $Z = 2$. The unit cell contains eight cations and two $[\text{Pb}_3\text{Br}_{10}]^{4-}$ anions, each of which shares four vertices with neighbouring anions resulting in a twodimensional anionic partial structure of the $\text{Cs}_4\text{Mg}_3\text{F}_{10}$ type.