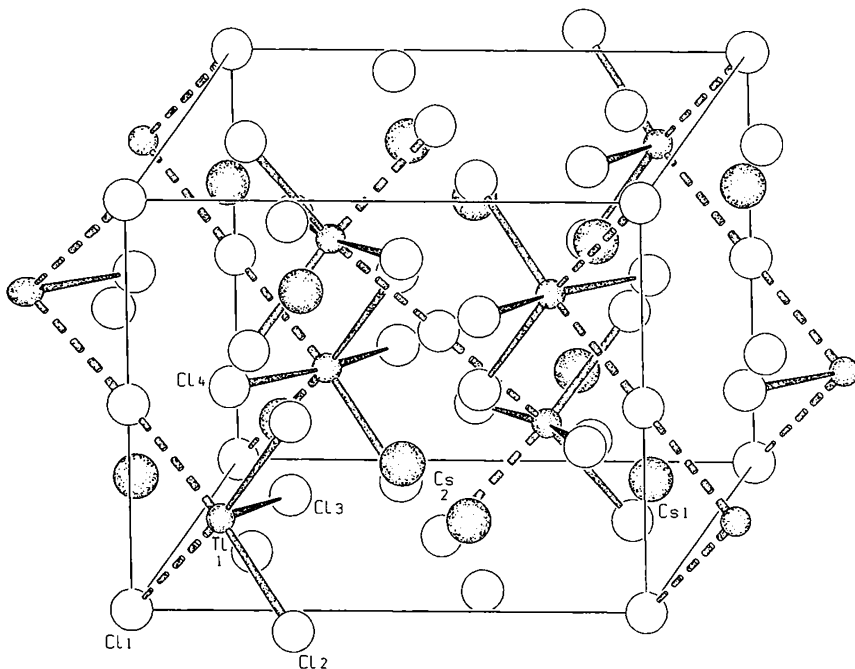


Crystal structure of dicaesium pentachlorothallate, Cs_2TlCl_5

G. Thiele and R. Richter

Institut für Anorganische und Analytische Chemie, Albertstr. 21, W-7800 Freiburg i. Br.

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Source of material: Crystallization from aqueous solutions of TlCl_3 and CsCl (see ref. 1).

Distorted octahedral TlCl_6 groups ($d(\text{Tl}-\text{Cl}) = 2.50 - 2.80 \text{ \AA}$) are linked by common vertices to chain anions. Coordination number 10 for Cs.

Orthorhombic, Pnma (no 62), $a = 9.337(2)$, $b = 7.493(1)$, $c = 14.861(3) \text{ \AA}$, $V = 1039.7 \text{ \AA}^3$, $Z = 4$, $R = .031$.