

**SINTESIS DAN STRUKTUR KRISTAL “ADDUK” ASETONITRIL
SENYAWA TETRA PHENYL PHOSPONUM TETRA KLORIDA
DYSPROSAT(III), (Ph₄P)DyCl₄(CH₃CN)**

Asrial

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ABSTRACT: Single crystals of (Ph₄P)DyCl₄(CH₃CN) is obtained from the reaction of dysprosium trichloride, DyCl₃ with tetra phenyl phosphonium chloride, Ph₄P⁺Cl⁻ in acetonitrile. The crystal structures monoclinic, P2₁/n Z = 4, a = 997.3(5); b = 1835.8(7); c = 1626.7(5) pm, β = 104.67(4)^o; R₁ = 0.0469, wR₂ = 0.0971 for I>2σ(I)] contain the dimeric anions [Dy₂(μ₂-Cl)₂(μ₁- Cl)₆(CH₃CN)₂]²⁻ and (Ph₄P)⁺ cation in slightly different packing modes.

Keywords: Synthesis; Crystal Structure; Dysprosium;