

# Halogeno(acylphenolato)cobalt(III)-Verbindungen mit Trimethylphosphan-Liganden

Halogeno(acylphenolato)cobalt(III) Compounds Containing Trimethylphosphane Ligands

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Acylcobalt(III) Complexes, Reactions, Structure, Hard-Soft Chelating Ligands

Complexes *mer*-CoH(CO-CR=CR'-O)(PMe<sub>3</sub>)<sub>3</sub> react with haloalkanes RX (X = Br, I) or with acids HX (X = Cl, Br) under elimination of dihydrogen. In both reactions a change of configuration at the metal is brought about by directional steering through the hard/soft (acyl)enolato chelate ligands to form octahedral complexes *mer*-CoX(CO-CR=CR'-O)(PMe<sub>3</sub>)<sub>3</sub> or sterically crowded ionic compounds [Co(CO-CR=CR'-O)(PMe<sub>3</sub>)<sub>4(3)</sub>]<sup>+</sup> X<sup>-</sup> (X = ClO<sub>4</sub>) without opening of the (acyl)enolato chelate ring.

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