MS33-P20 | SYNTHESIS AND CRYSTAL STRUCTURE OF A NEW BIMETALLIC PLATINUM COMPLEX $[Pt_2(\mu\text{-}H)(\mu\text{-}PPH_2)2Br_2(PPH_3)_2]$

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Transition metal hydrides play a central role in many homogeneous catalytic reactions (Bertolasi et al., 1993), they are very important in hydrogenetaion or hydroformylation Their characterization is commonly carried out by NMR spectroscopy , X-Ray analysis or neutron diffraction (Ciriano et al., 1978) Hydrides of Pt(II) are the most numerous (Leoni et al . , 1995) of any transition metal hydride group ; In addition to the presence of the hydride ligand the complexes invariably have a coordinated phosphine, the pure complexes are usually both air stable and kinetically inert (Roundhill., 1978) we report here the synthesis and structural analysis of a new hydrodo bridged diplatinum complexe $[Pt_2(\mu\text{-}H)(\mu\text{-}PPh_2)2Br_2(PPh_3)_2]$

The title compound is composed of a triangle formed by two platinum atoms and one phosphorus (P2), the coordination sphere of each platinum is completed with a terminal phosphine (P1, P3) and two bromides (Br1, Br2)