Synthesis of the Dinuclear Halogeno-Bridged Complexes $[Re_2(\mu\text{-}X)_2(CO)_6(CH_3CN)_2]$, (X = Cl, Br)

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Complexes $[Re_2(\mu\text{-}X)_2(CO)_6(NCCH_3)_2]$ (X = Cl, Br) have been easily prepared in high yield by refluxing of *fac*-$[ReX(CO)_3(NCCH_3)_2]$ in toluene. The crystal and molecular structure of the bromine derivative have been determined by X-ray analysis. The molecule consists of two *fac*-$Re(CO)_3$ fragments bridged by two bromine atoms. The acetonitrile molecules reside above and below the Re_2Br_2 plane.

Key words: Rhenium, Carbonyls, Crystal Structure, Acetonitrile Complexes