A comparative study of 1,5-cyclooctadiene complexes of W(0) and W(II). X-ray crystal structure of $[W(CO)_4(\eta^2,\eta^2\text{-}1,5\text{-}C_8H_{12})]$ and $[W(\mu\text{-}Cl)(SnCl_3)(CO)_3(\eta^2,\eta^2\text{-}1,5\text{-}C_8H_{12})]$.

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The photoinitiated oxidative addition of 1 equiv. of $SnCl_4$ to $[W(CO)_4(\eta^2,\eta^2\text{-}1,5\text{-}C_8H_{12})]$ (**1**) affords the first cyclooctadiene complex of tungsten(II) $[W(\mu\text{-}Cl)(SnCl_3)(CO)_3(\eta^2,\eta^2\text{-}1,5\text{-}C_8H_{12})]$ (**2**). The structure of compounds **1** and **2** in solution has been established by IR, ^1H and ^{13}C NMR spectroscopic methods and found to be in accordance with the crystal structure determined by X-ray diffraction studies.

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