A novel heterobimetallic W-Ge compound. X-ray crystal structure of [W(μ-Cl) ($GeCl_3$) ($CO)_3$(η^4-C_7H_8)].

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Streszczenie

The new heterobimetallic complex [W(μ-Cl)($GeCl_3$)($CO)_3$(η^4-C_7H_8)] (**1**) has been prepared by photochemical reaction of $W(CO)_6$ with bicyclo[2.2.1]hepta-2,5-diene (NBD) and $GeCl_4$. The structure of compound **1** was established by X-ray crystallography. The IR, and spectra are also described and correlated with the crystallographically observed geometry. Compound **1** is noteworthy since it is the first alkene complex of tungsten isolated in $W(CO)_6$ – Lewis acid photocatalytic system.

Słowa kluczowe

Tungsten, Germanium, Crystal structure, Heterobimetallic compound, Alkene complex

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