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$\text{W}(\text{CO})_3(\text{PMTA})$ (PMTA = $\text{MeN}(\text{CH}_2\text{CH}_2\text{NMe}_2)_2$) as a starting material for syntheses of $\text{W}(\text{CO})_3(\text{PR}_3)_3$, $\text{W}(\text{CO})_3(\eta^6\text{-arene})$, and protonated $\text{W}(\text{H})(\text{CO})_3(\text{PR}_3)_3^+$ complexes (V. Zanotti, V. Rutar, R.J. Angelici), (414) 177

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Alumohydride group, change of bonding mode in biscyclopentadienylhydrido REM complexes from heterometallic to homometallic; crystal and molecular structures of $[(\eta^5-\text{C}_5\text{H}_5)_2\text{Yb}(\mu_3\text{-H})]_2[(\mu_2\text{-H})\text{AlH}_2 \cdot \text{N}(\text{C}_2\text{H}_5)_3]_2 \cdot \text{C}_6\text{H}_6$, $[(\eta^5-\text{C}_5\text{H}_5)_2\text{Lu}(\mu_2\text{-H})]_2[(\mu_2\text{-H})_2\text{AlH} \cdot \text{N}(\text{C}_2\text{H}_5)_3]_2 \cdot \text{C}_6\text{H}_6$ and $[(\eta^5-\text{C}_5\text{H}_5)_2\text{Lu}]_3(\mu_2\text{-H})_2(\mu_3\text{-H})$ (S.Ya. Knjazhanskij, B.M. Bulychev, O.K. Kireeva, V.K. Belsky, G.L. Soloveichik), (414) 11

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Reagents for transition metal complex and organometallic syntheses; inorganic syntheses, Vol. 28; edited by R.J. Angelici (J.D. Smith), (414) C33