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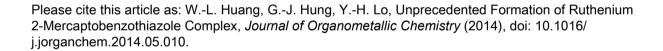
PII: S0022-328X(14)00238-1

DOI: 10.1016/j.jorganchem.2014.05.010

Reference: JOM 18582

To appear in: Journal of Organometallic Chemistry

Received Date: 8 April 2014
Revised Date: 8 May 2014
Accepted Date: 11 May 2014



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Unprecedented Formation of Ruthenium 2-Mercaptobenzothiazole Complex

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The CS_2 insertion of ruthenium chloride complex $Tp(Ph_2C=NH)(PPh_3)Ru$ -Cl (1) in the presence of CH_3OH resulted in the O-methyldithiocarbonate complex $Tp(PPh_3)Ru$ (κ^2 - S_2COCH_3) (3). Attractively, the analogous reaction with CS_2 in the presence of PhN_3 in toluene at reflux led to unprecedented formation of the ruthenium 2-mercaptobenzothiazole complex $Tp(PPh_3)Ru(\kappa^2-S,N-N=CS_2C_6H_4)$ (4), possibly via the C-H activation of an imido intermediate. Theoretical calculations support the proposed mechanism.

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