

Answer on Question#71925 – Chemistry – Organic chemistry

Question:

Reaction of $\text{IrCl}_3(\text{tht})_3$ (tht=tetrahydrothiophene) with allyllithium (LiC_3H_5) in 1:3 molar ratio gave a neutral organometallic compound A which does not have Cl or tht as ligands. Compound A was found to undergo addition reactions further with (a) 1 mole of PPh_3 and (b) 2 moles of PMe_3 to give compounds B and C respectively. Compounds A, B and C obey the 18 electron rule. Draw the structures of compounds A-C clearly indicating mode of bonding of ligands involved.

Answer:

