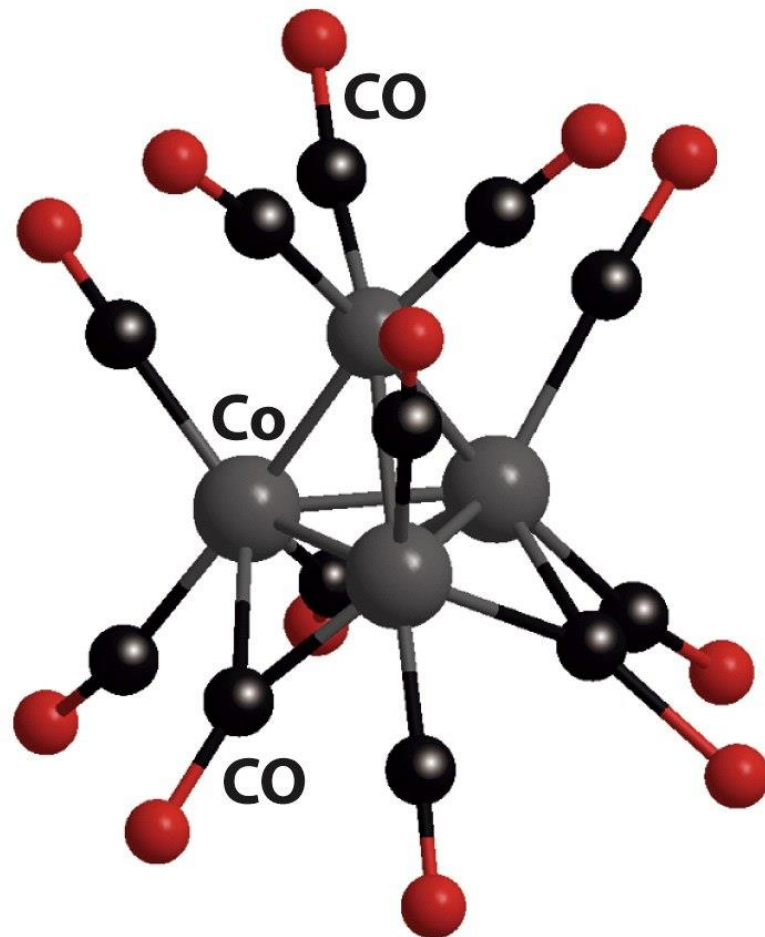
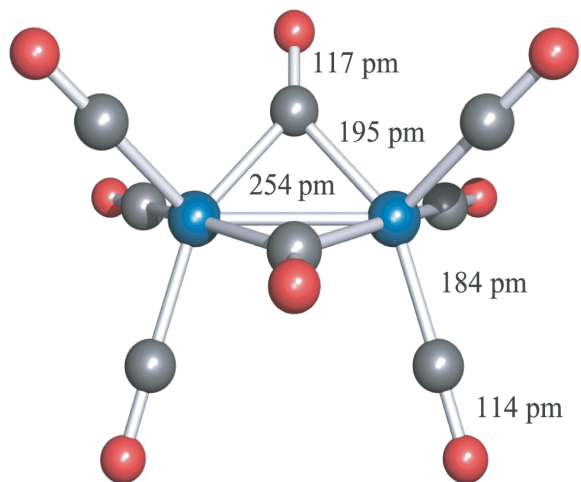
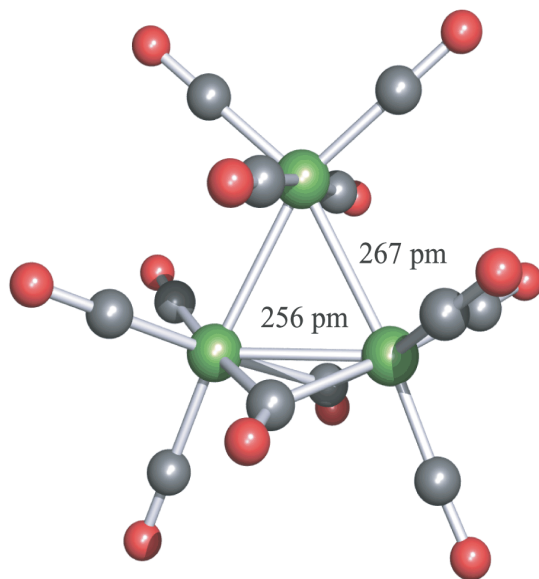
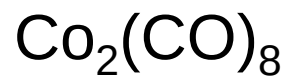


Cluster carbonilico

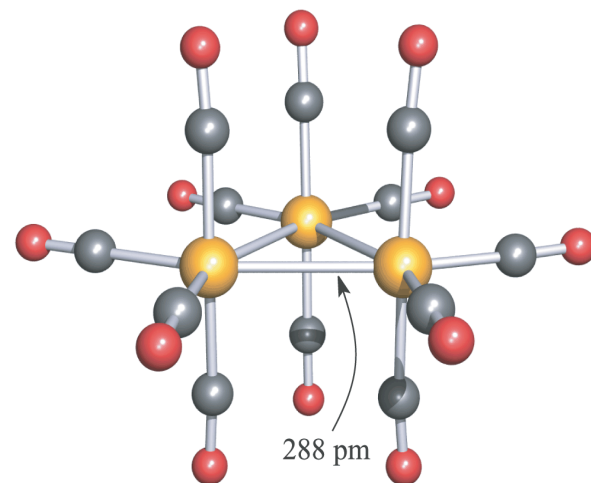
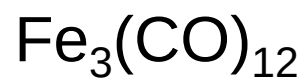




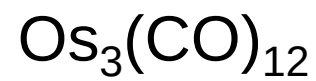
(d)

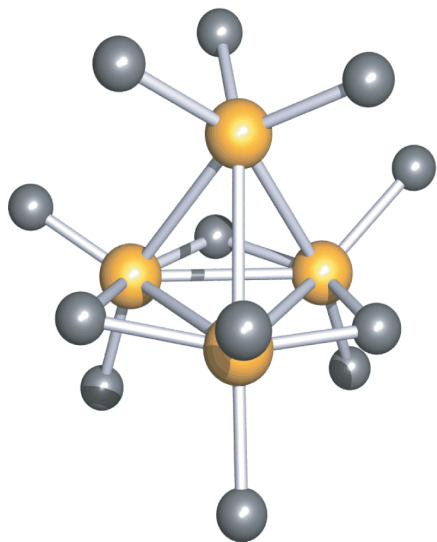


(e)

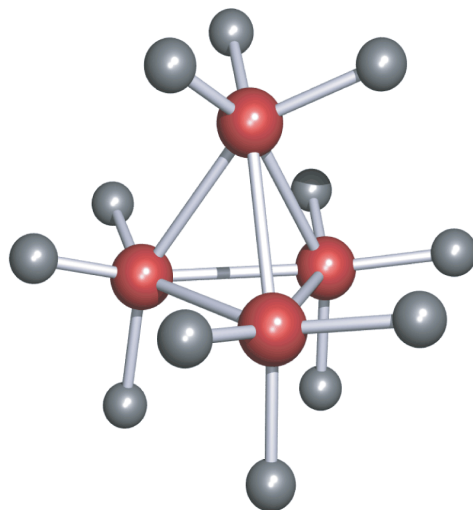
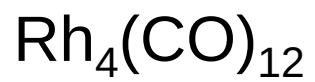


(f)

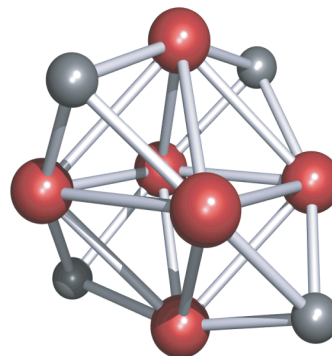




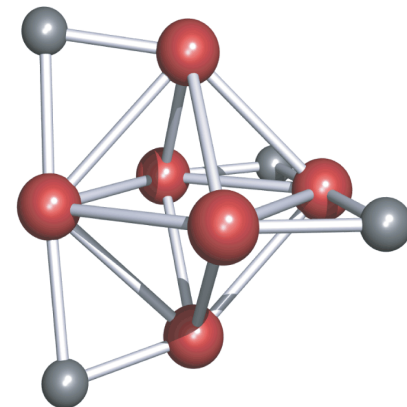
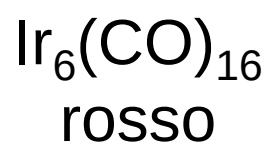
(a)



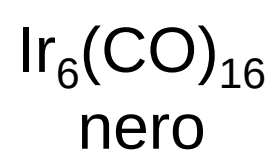
(b)

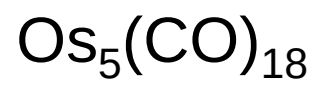
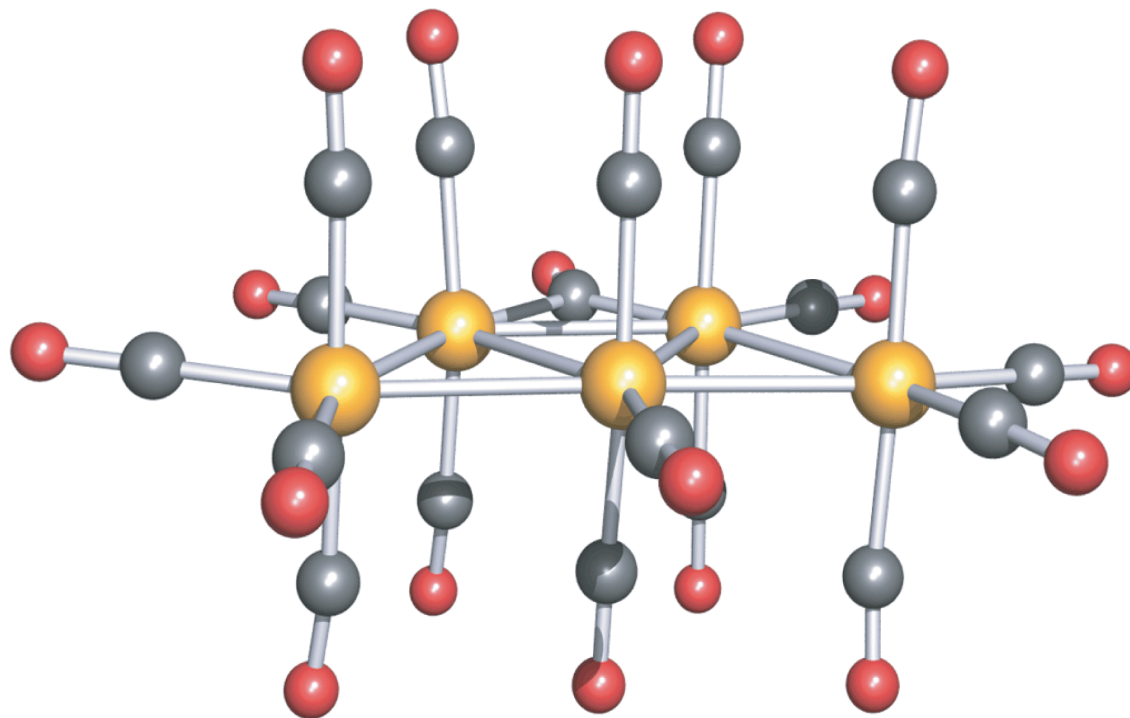


(c)

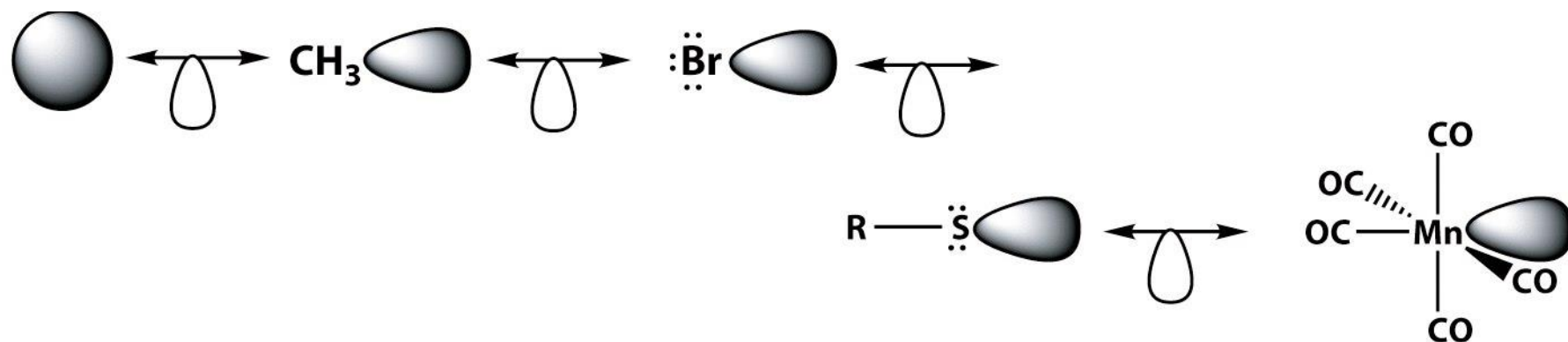


(d)





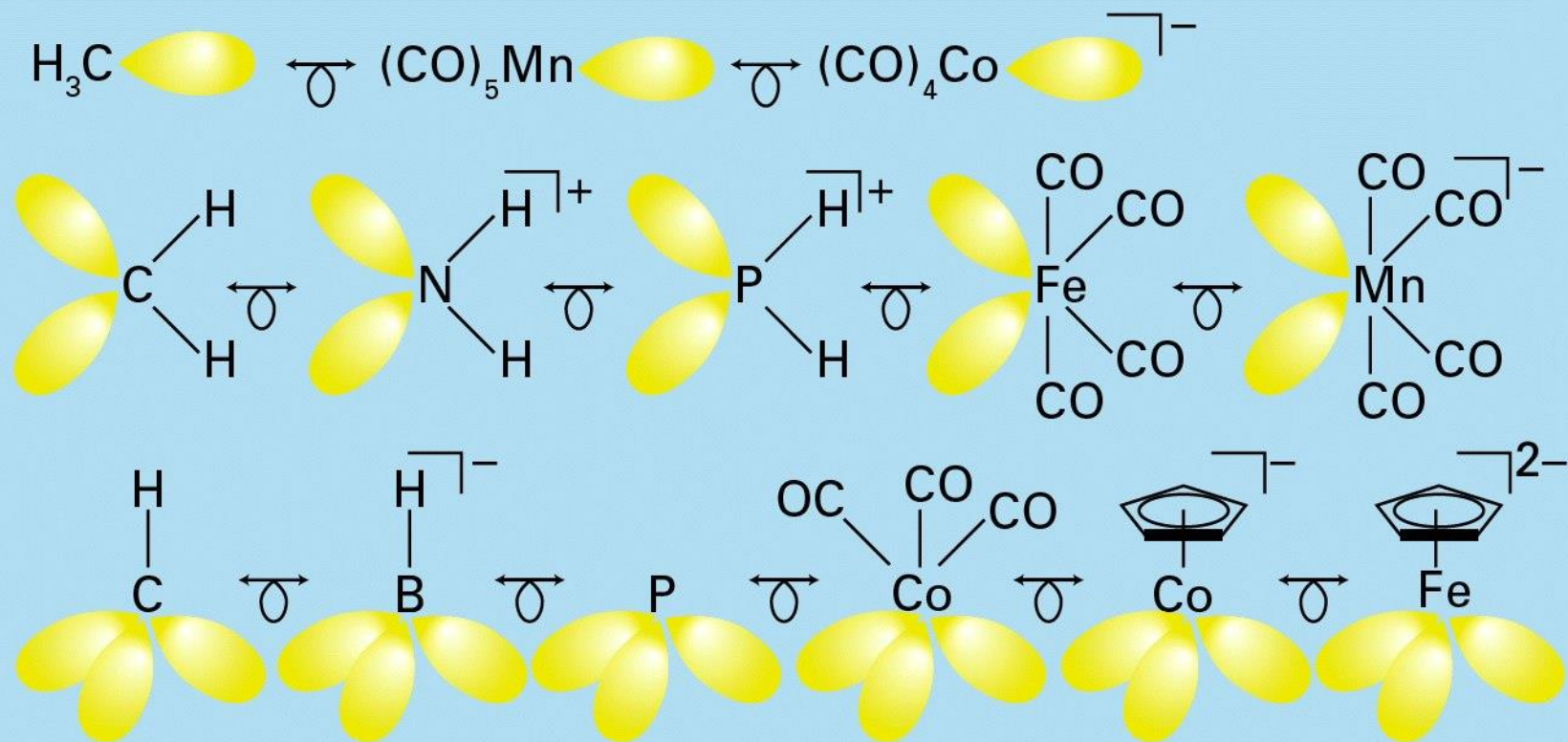
Serie di frammenti isolobali



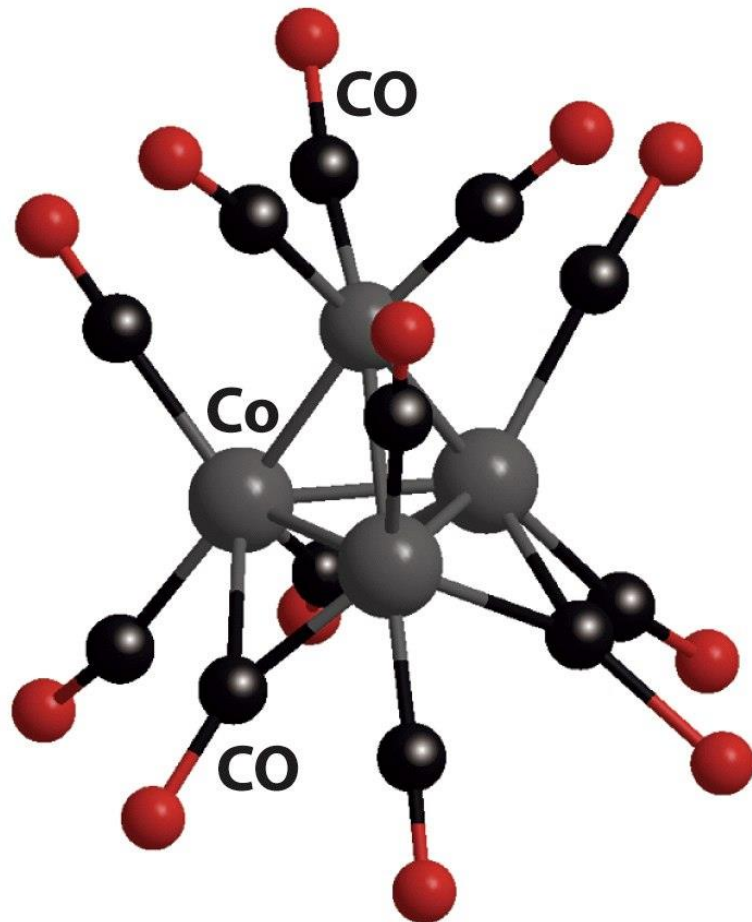
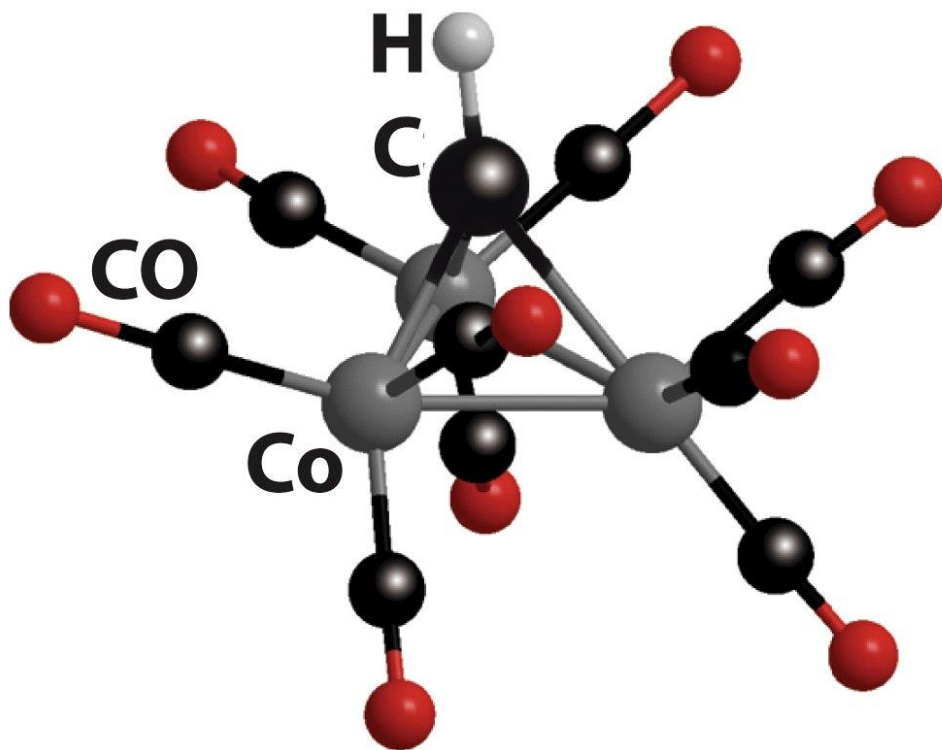
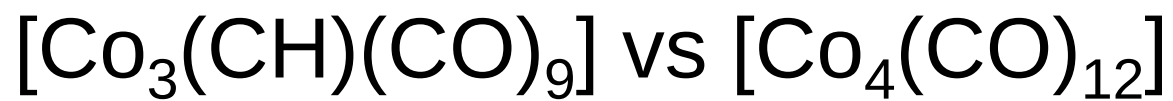
Gli **orbitali di frontiera** dei frammenti isolobali hanno:

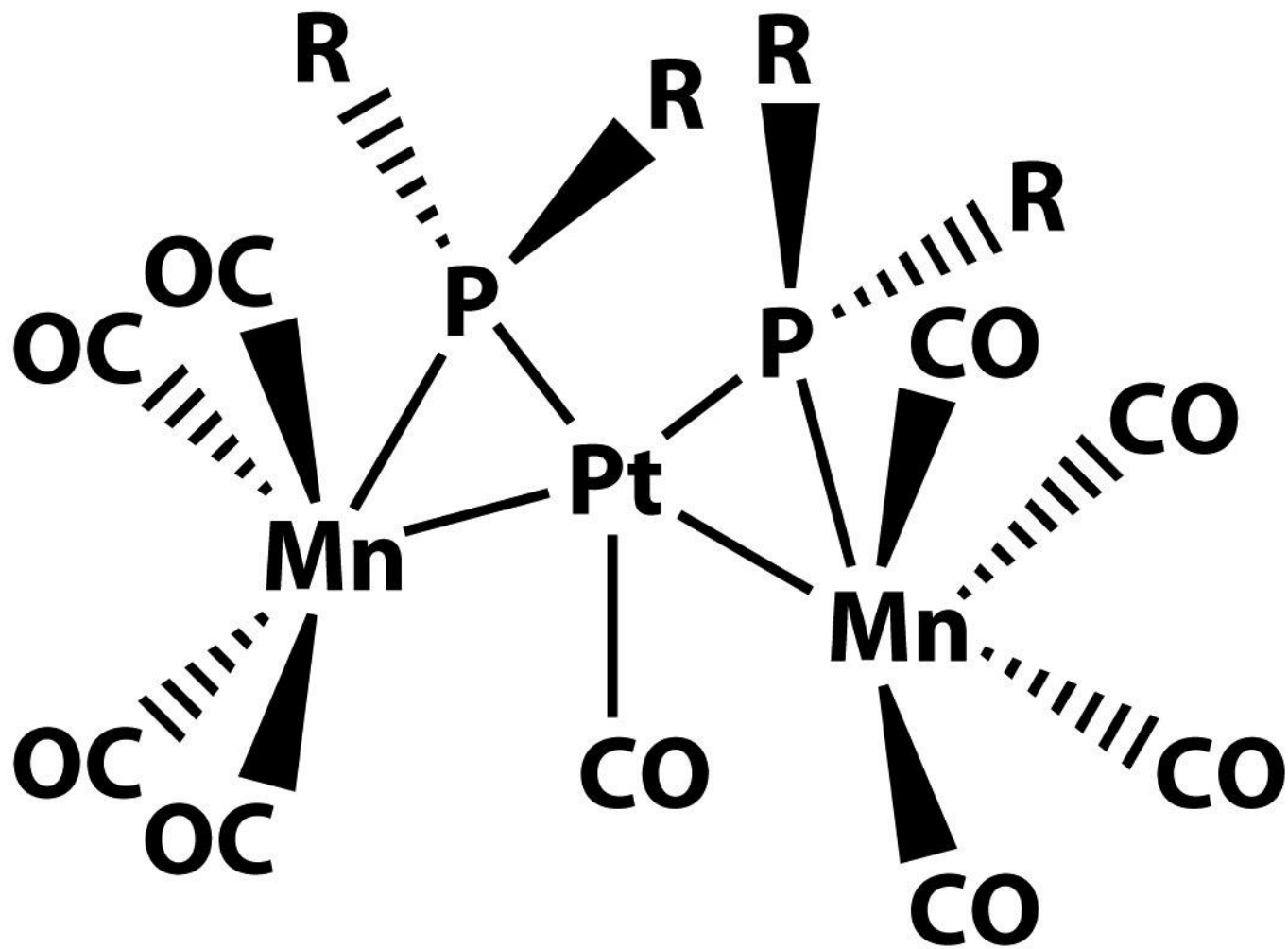
- stessa simmetria
- energie simili
- stessa occupazione elettronica

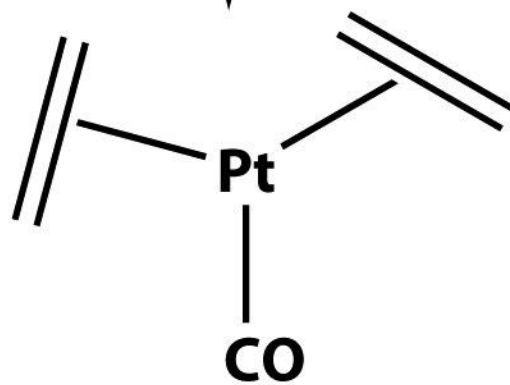
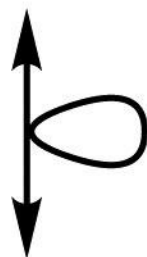
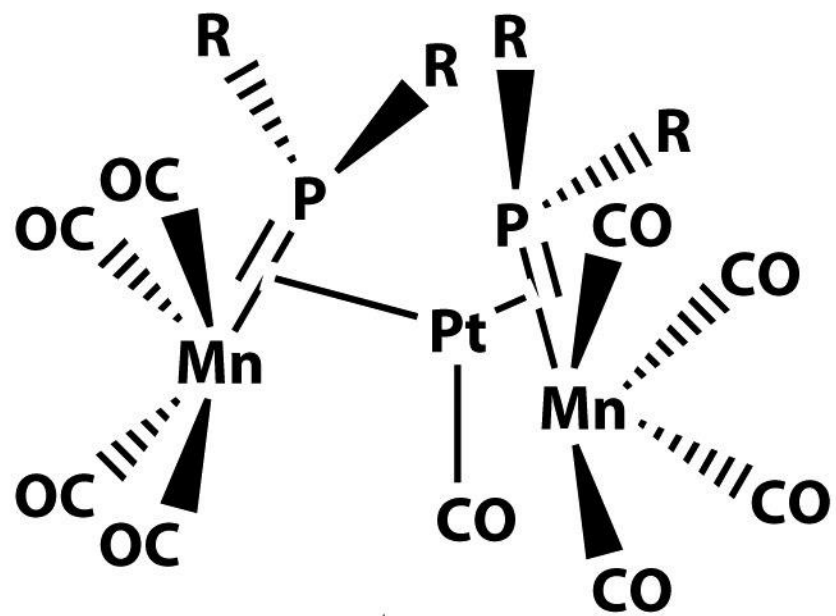
Table 21.10 Selected isolobal fragments

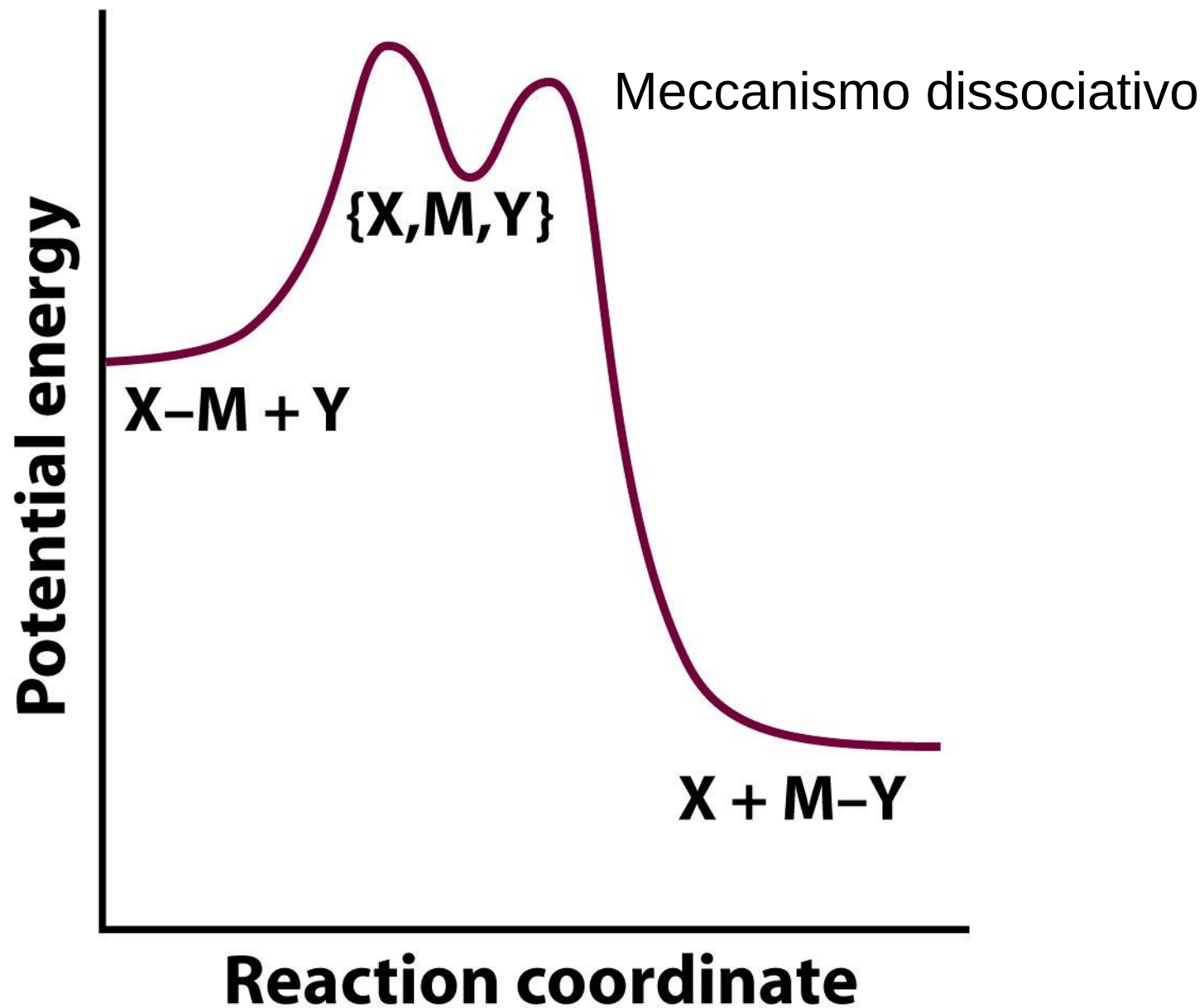


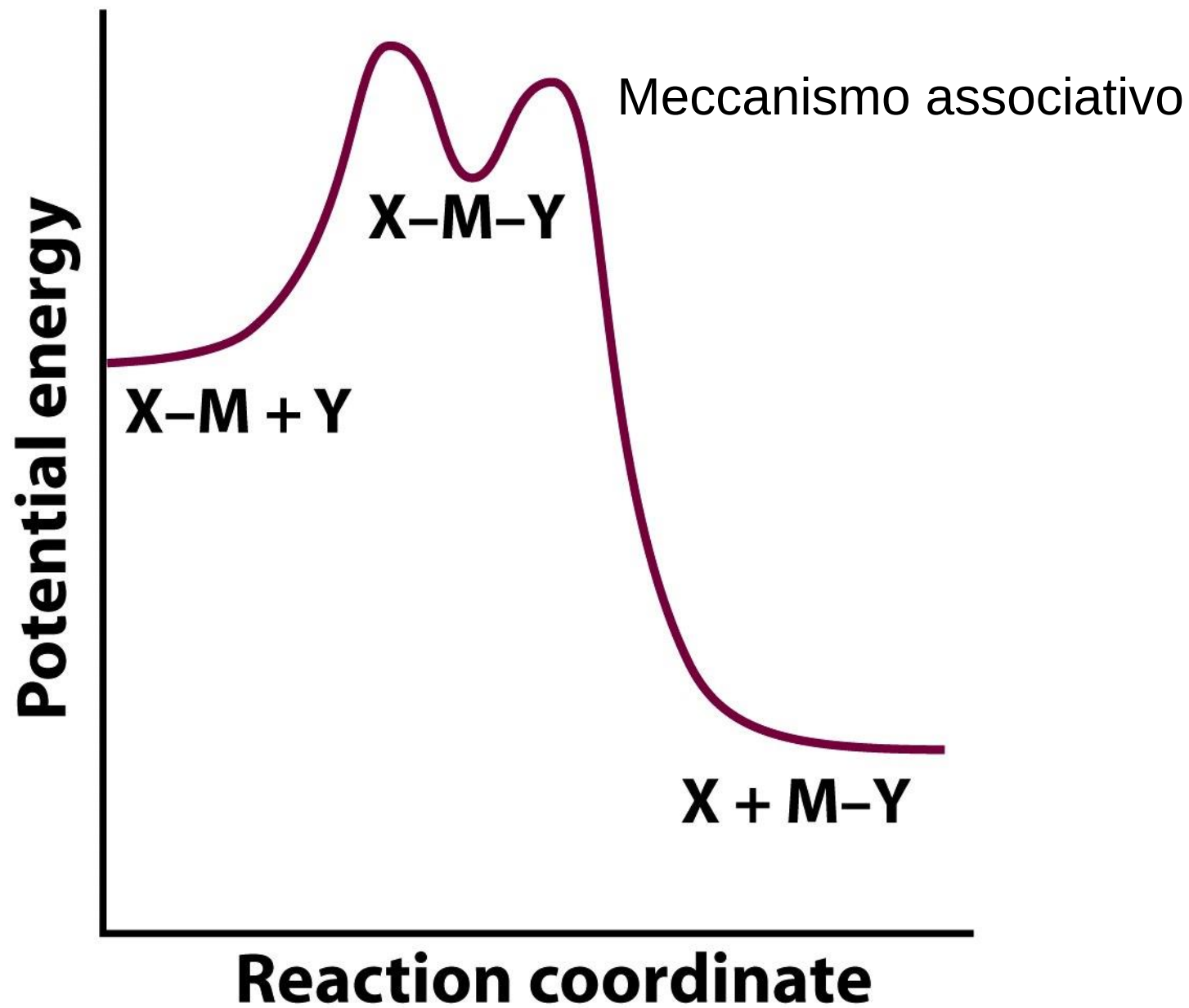
Note that electrons can be added to or subtracted from each member of the isolobal group and still maintain isolobality. For example, $\text{CH}_3^+ \longleftrightarrow \text{Mn}(\text{CO})_5^+ \longleftrightarrow \text{Co}(\text{CO})_4$.

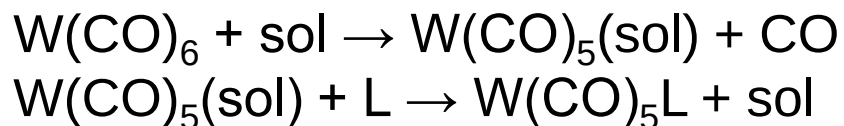
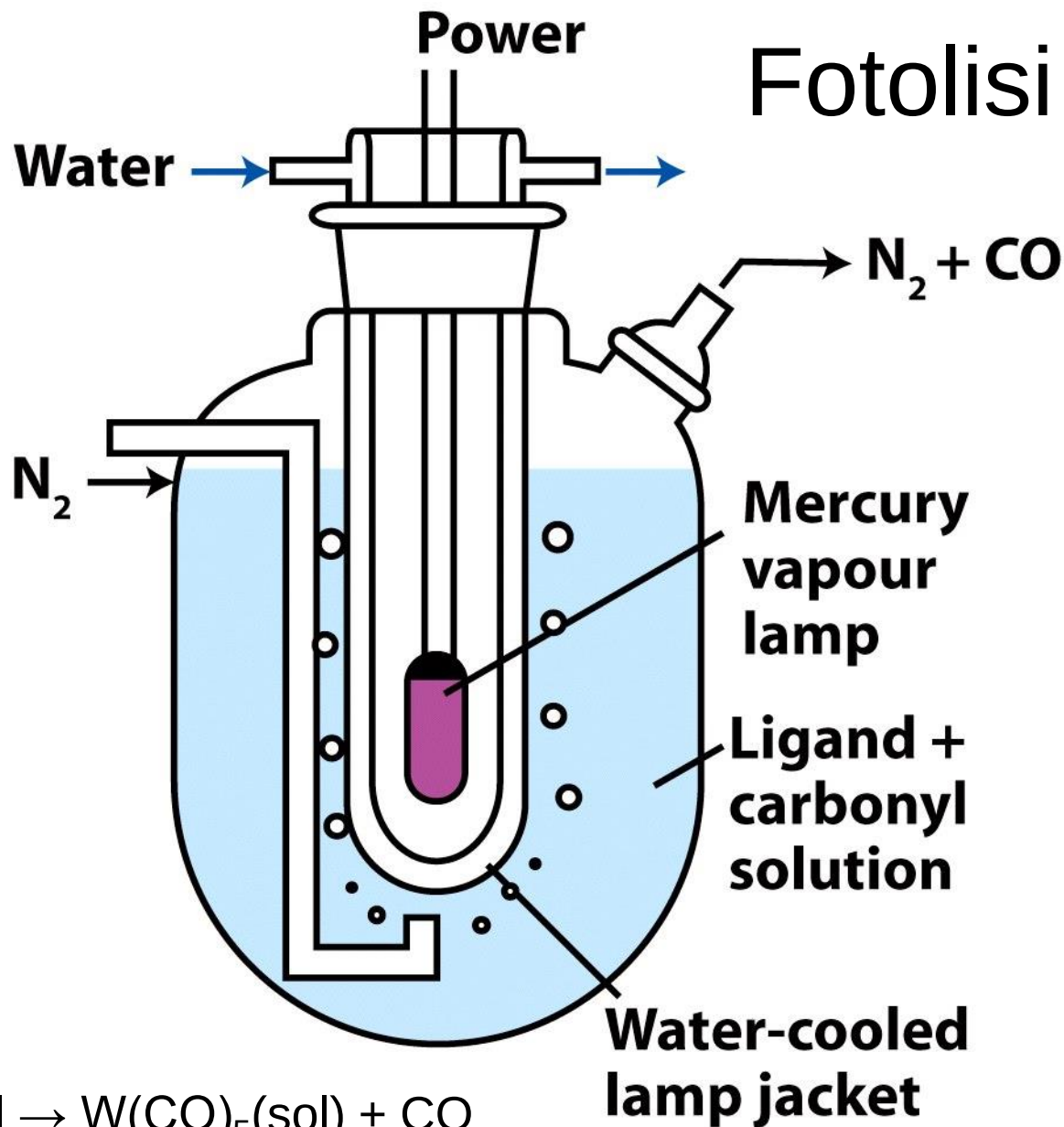




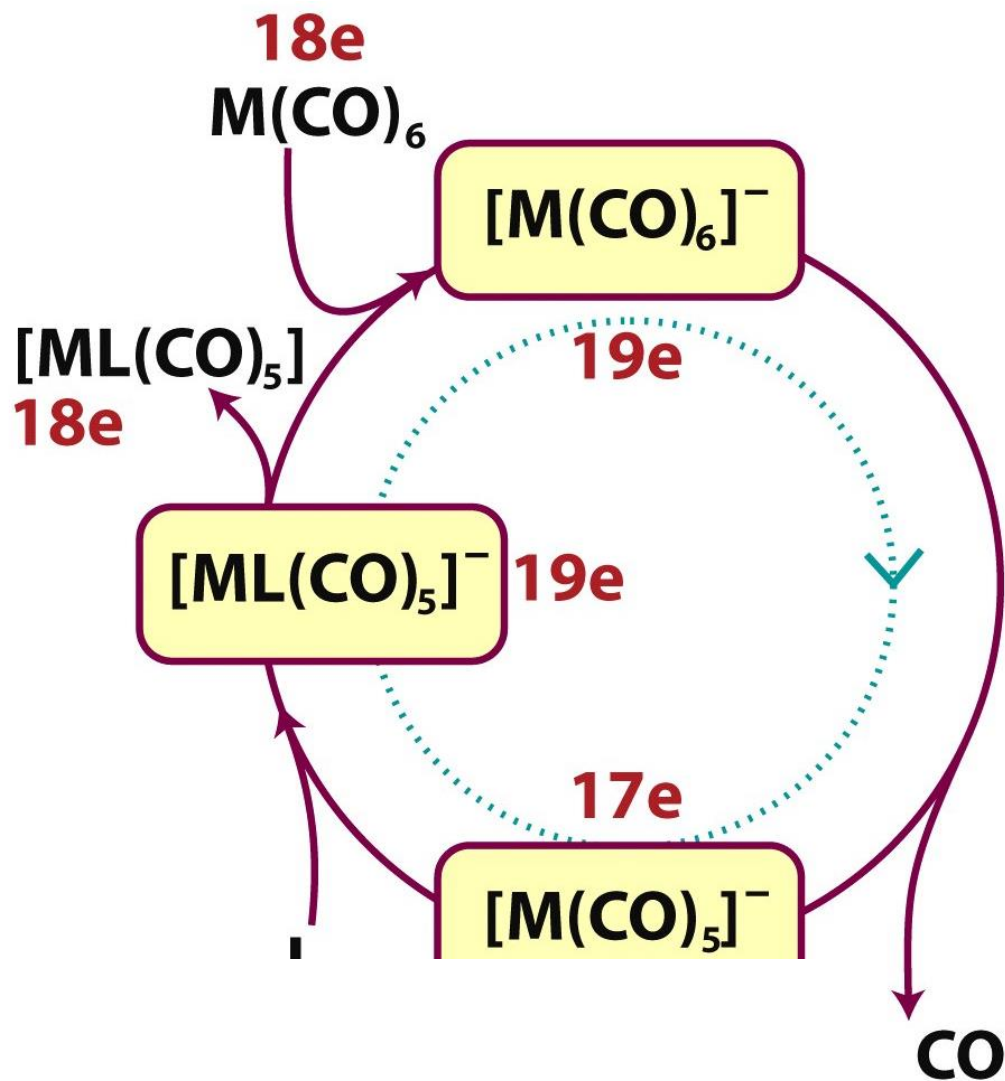




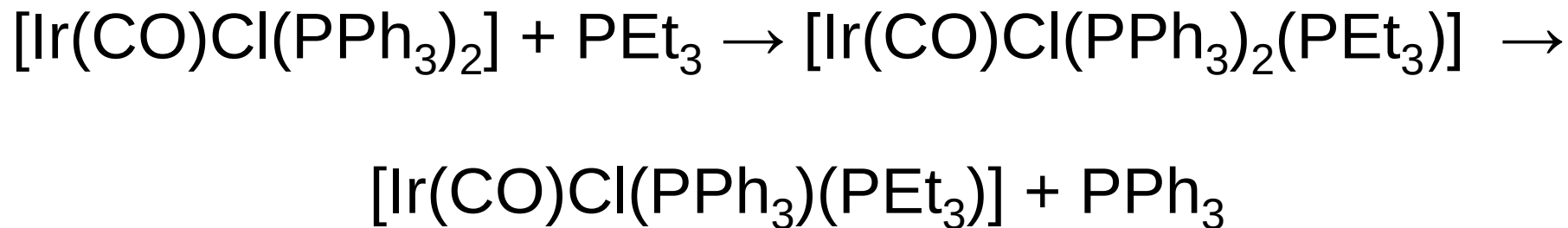




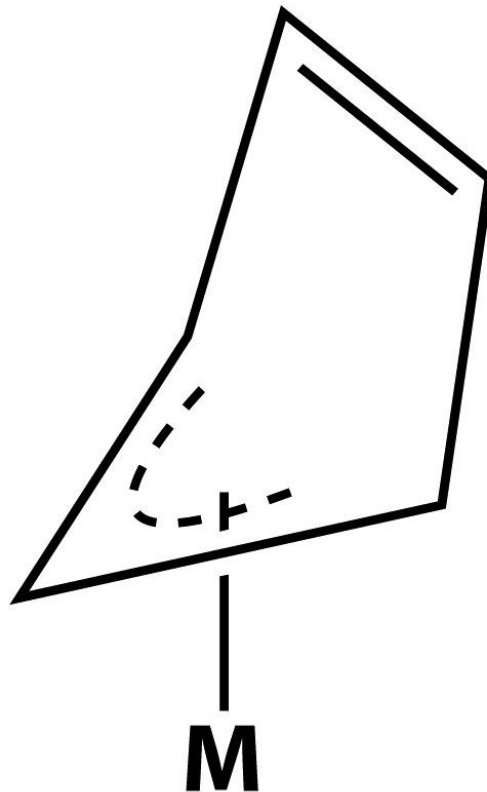
Sostituzione indotta da un processo redox
*aggiunta di quantità catalitica di un riducente
monoelettronico*



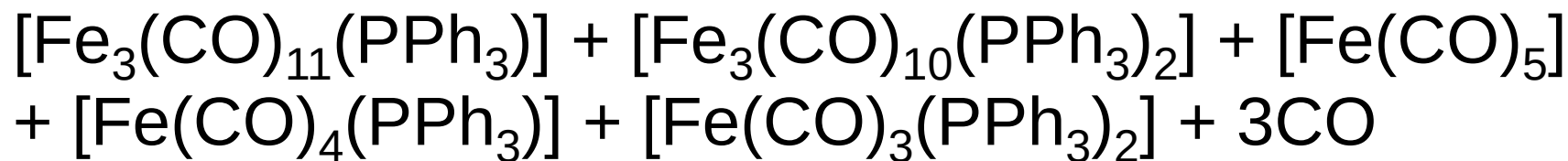
16e: meccanismo associativo



Sostituzioni con meccanismo associativo in complessi con 18 elettroni

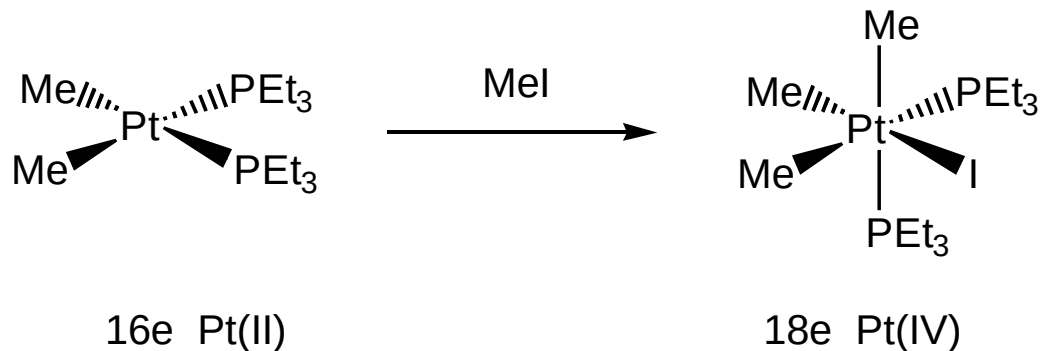


Sostituzione dei leganti in un cluster

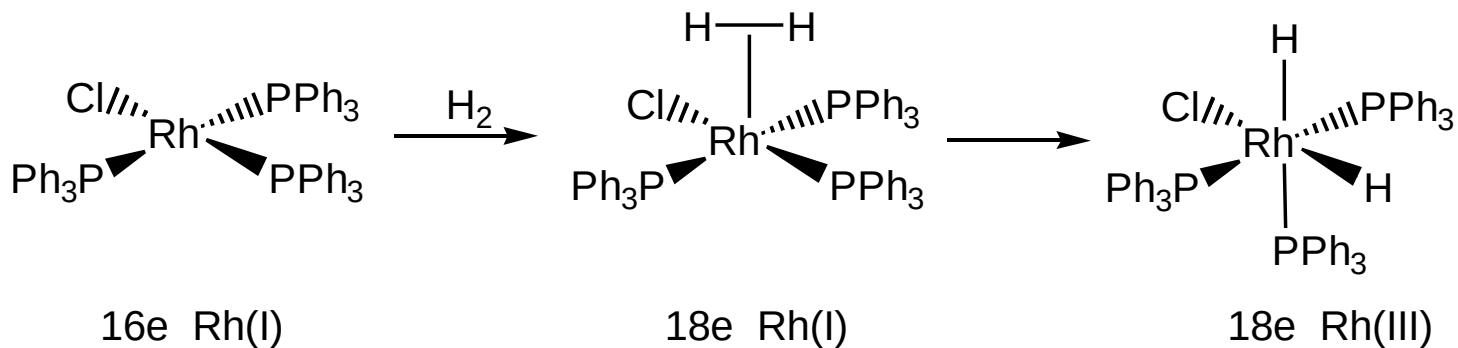


La stabilità dei legami metallo-metallo, e quindi dei cluster, aumenta scendendo in un gruppo.

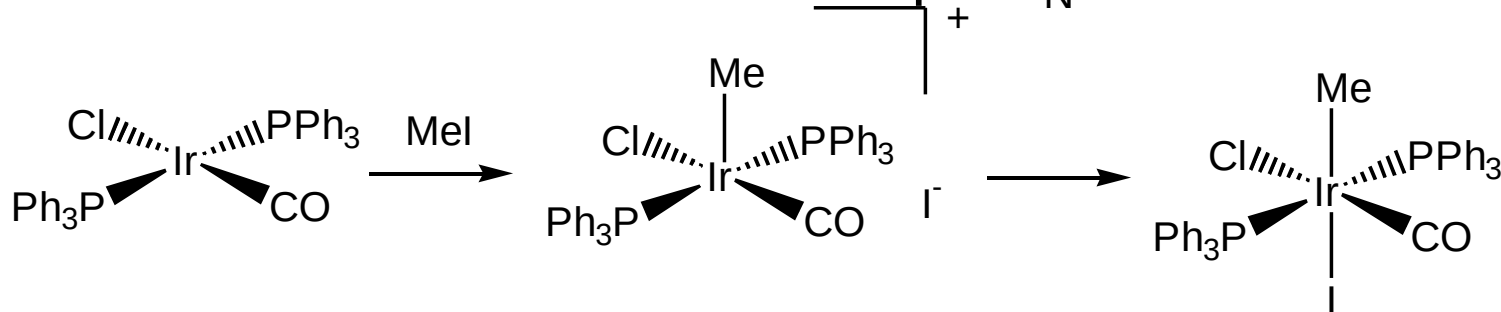
Addizione ossidativa



Meccanismo concertato

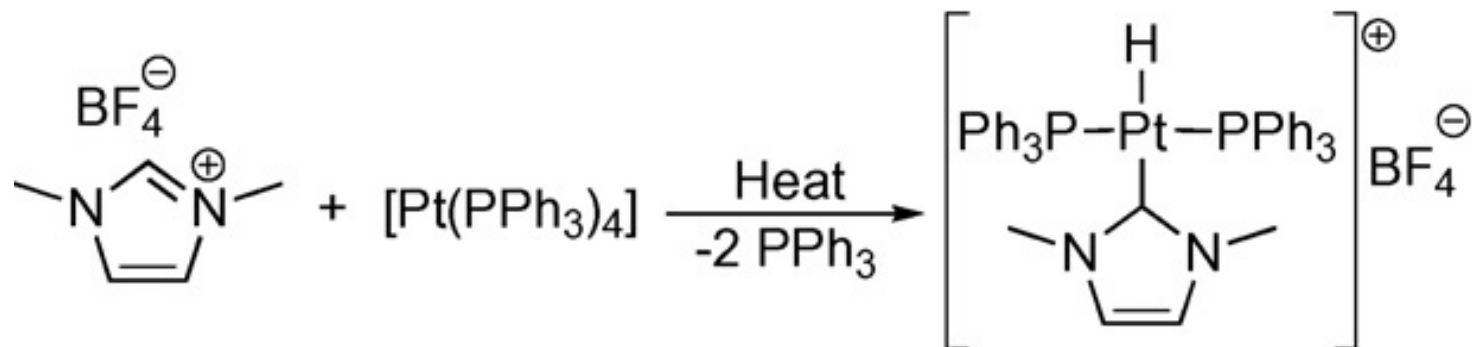


Meccanismo di tipo S_N2

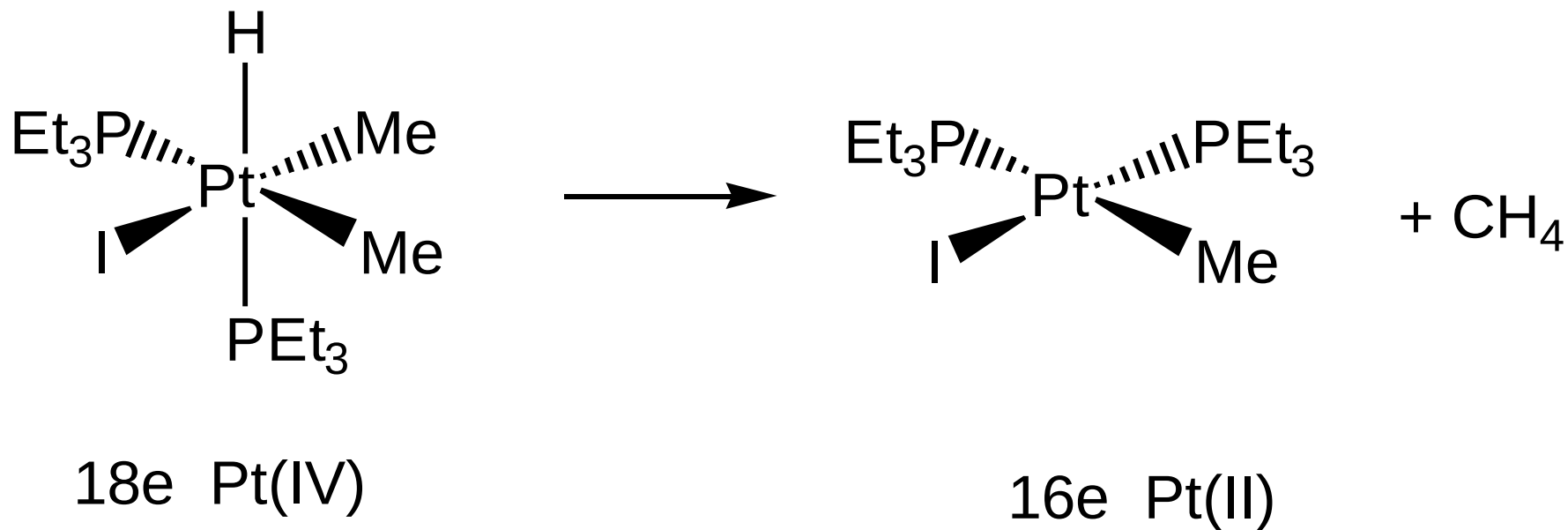


Caso anomalo di addizione ossidativa

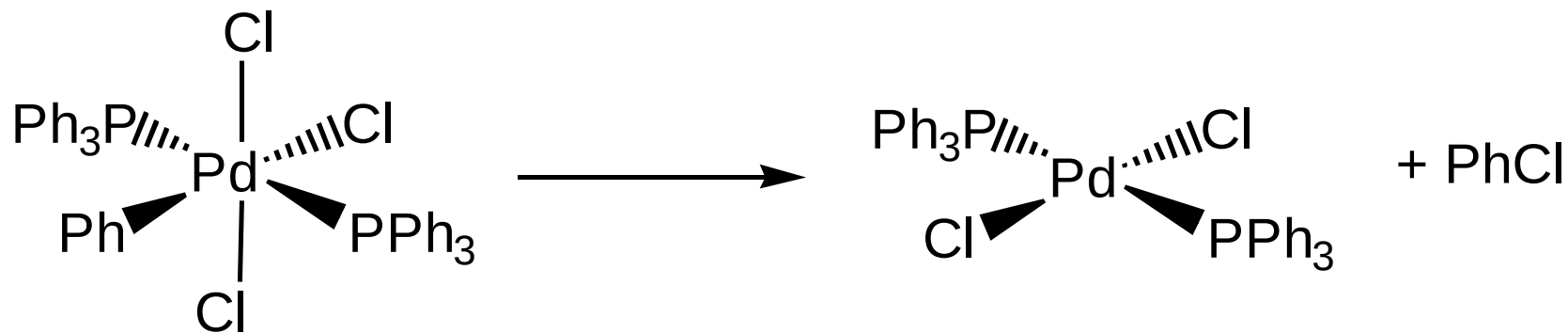
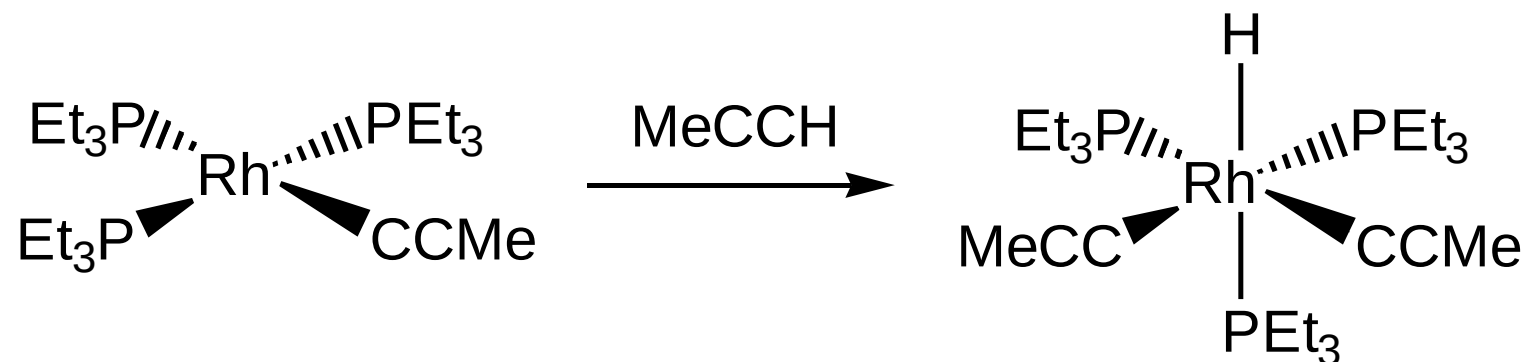
addizione ossidativa di sali di imidazolio su precursori zerovalenti



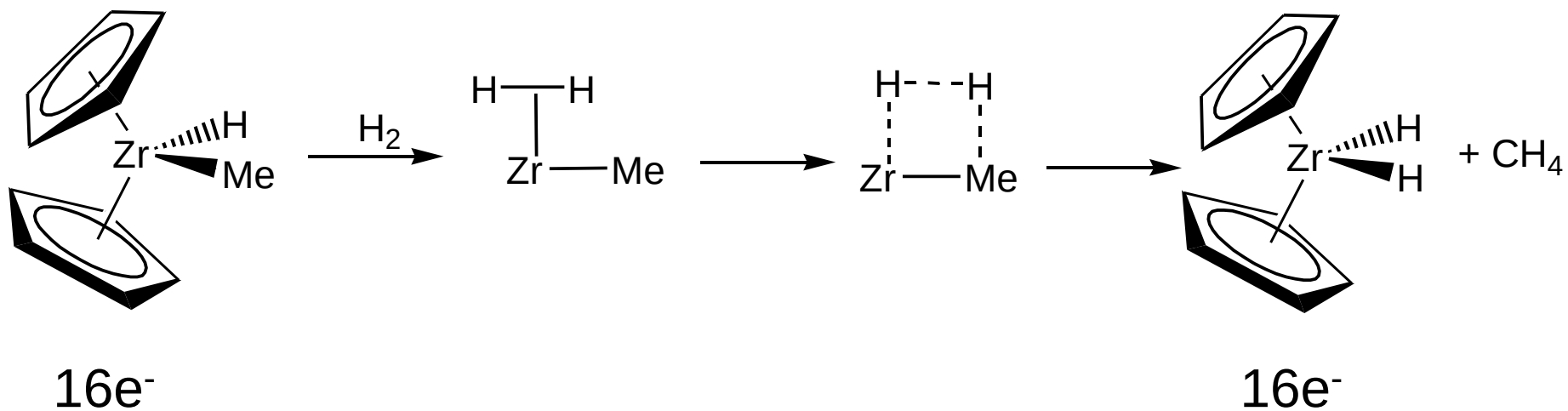
Eliminazione riduttiva



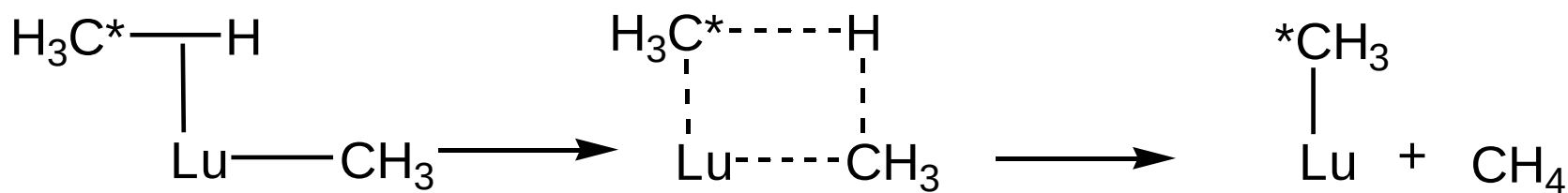
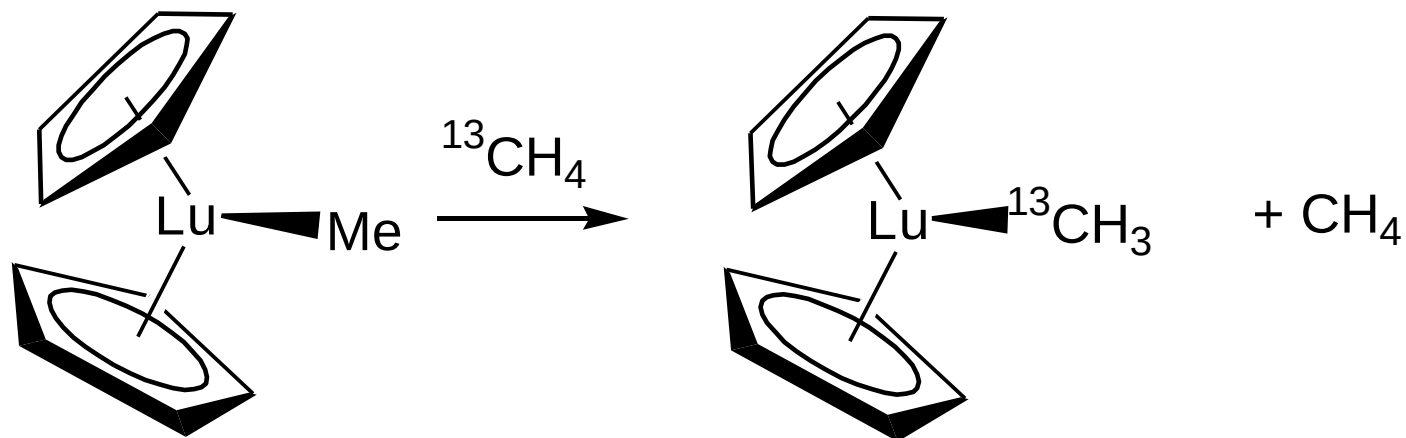
Esempi



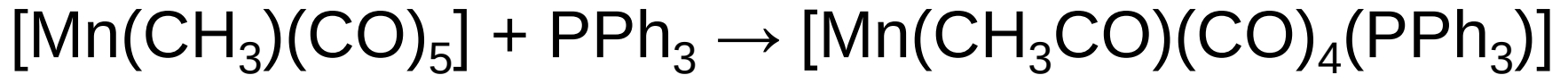
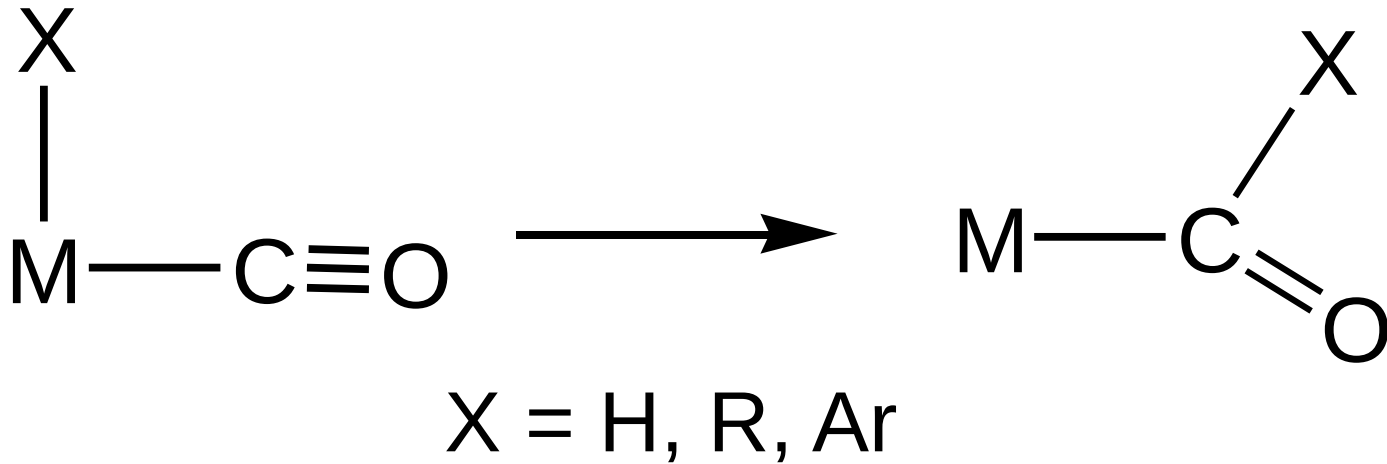
Metatesi di legame σ



Metatesi di legame σ

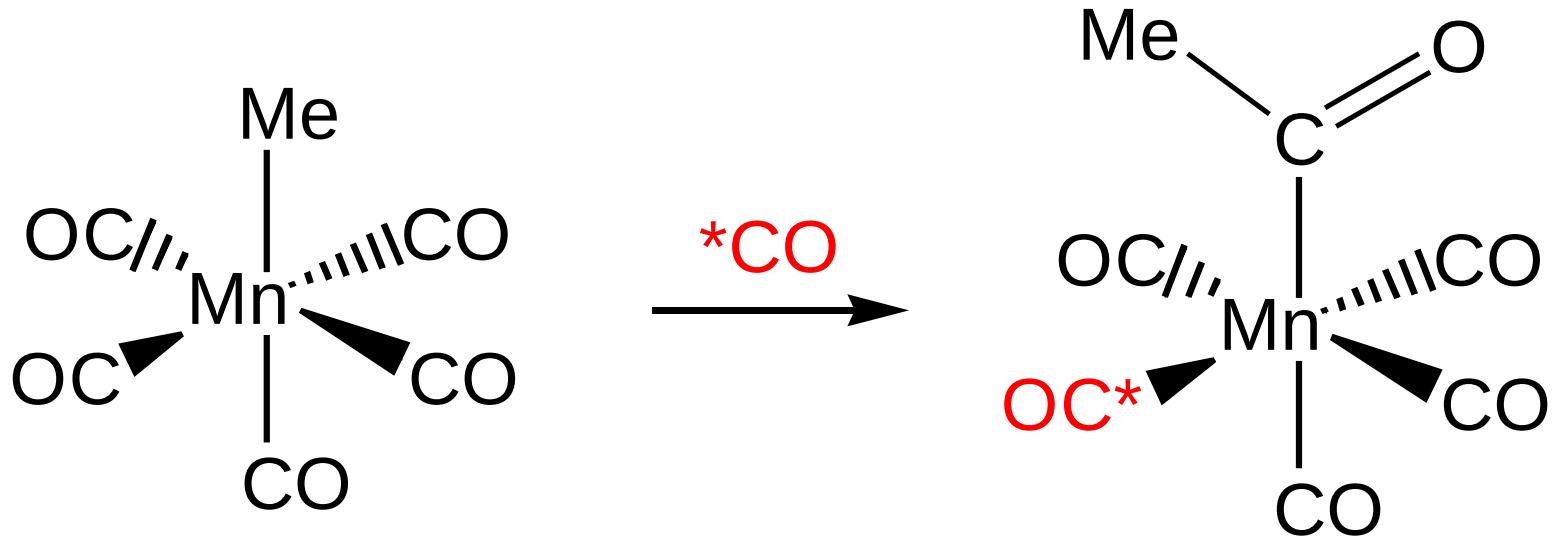


Inserzione migratoria 1,1

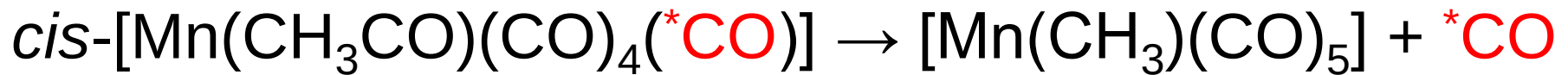


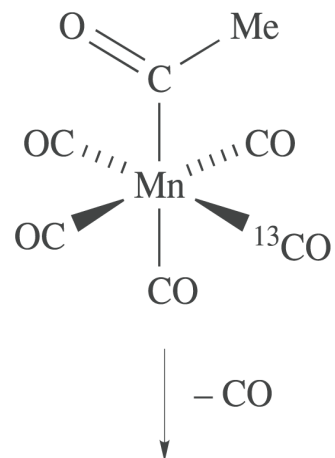
Migrazione di X su C o inserzione di CO nel legame M–X?

Meccanismo dell'inserzione migratoria 1,1

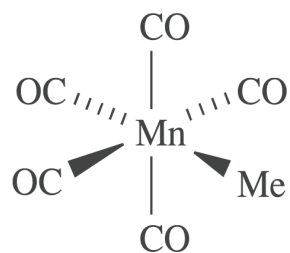


Reazione inversa



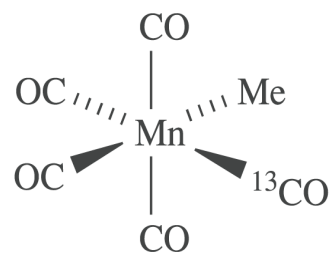


Migrazione Me



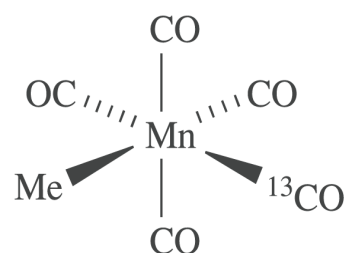
25%

+



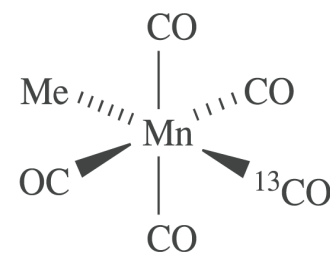
25%

+



25%

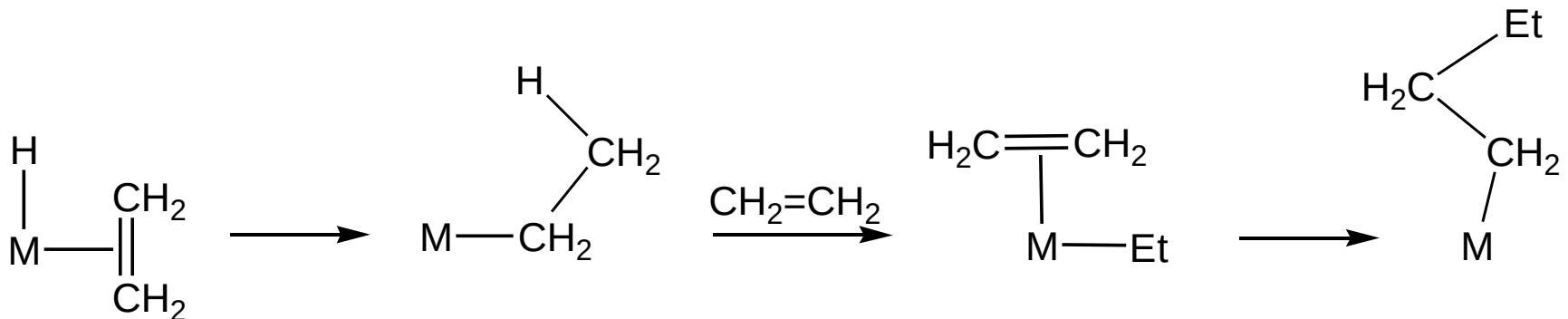
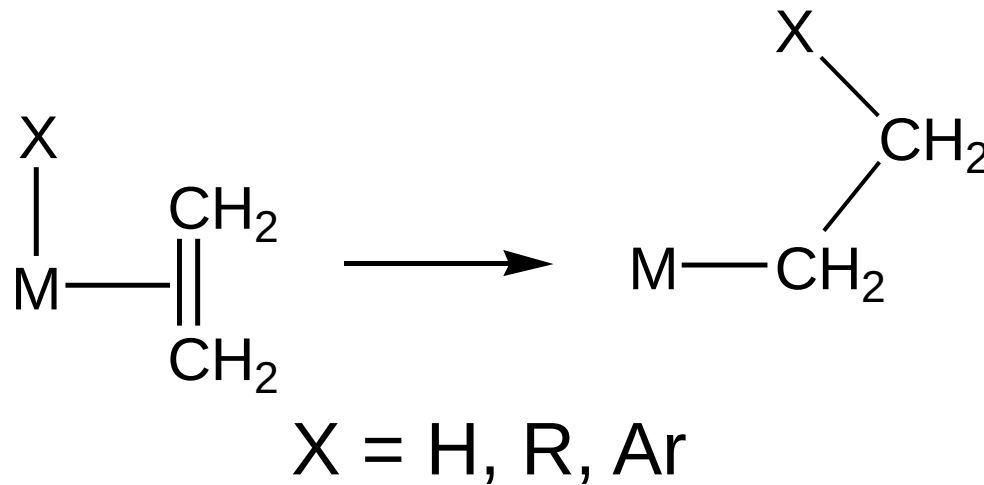
+



25%

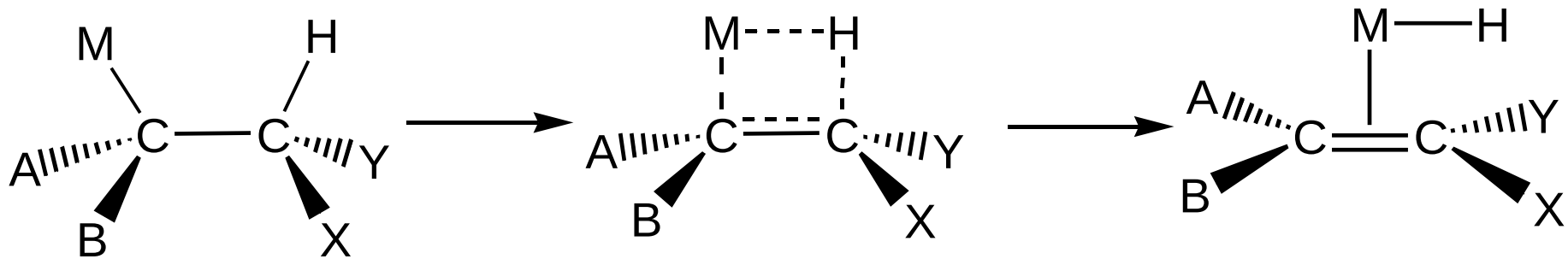
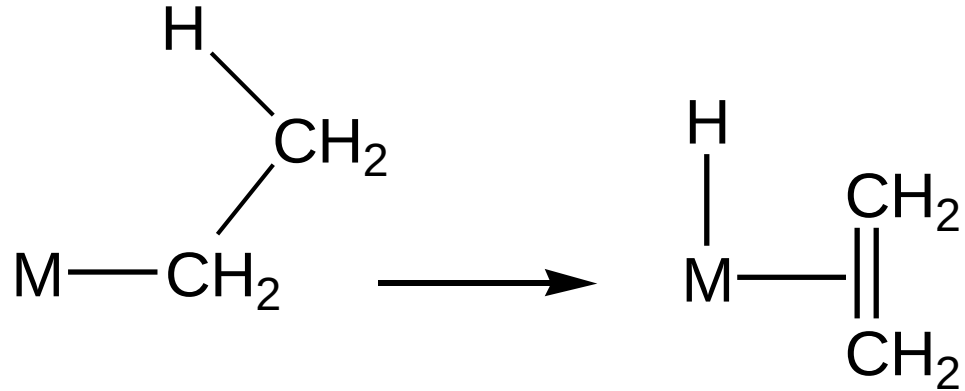
Equivalent products

Inserzione 1,2 *con leganti coordinati η^2*



Formazione di polietilene

β -eliminazione di idruro



Intermedio *syn*

Isomerizzazione di alcheni

