

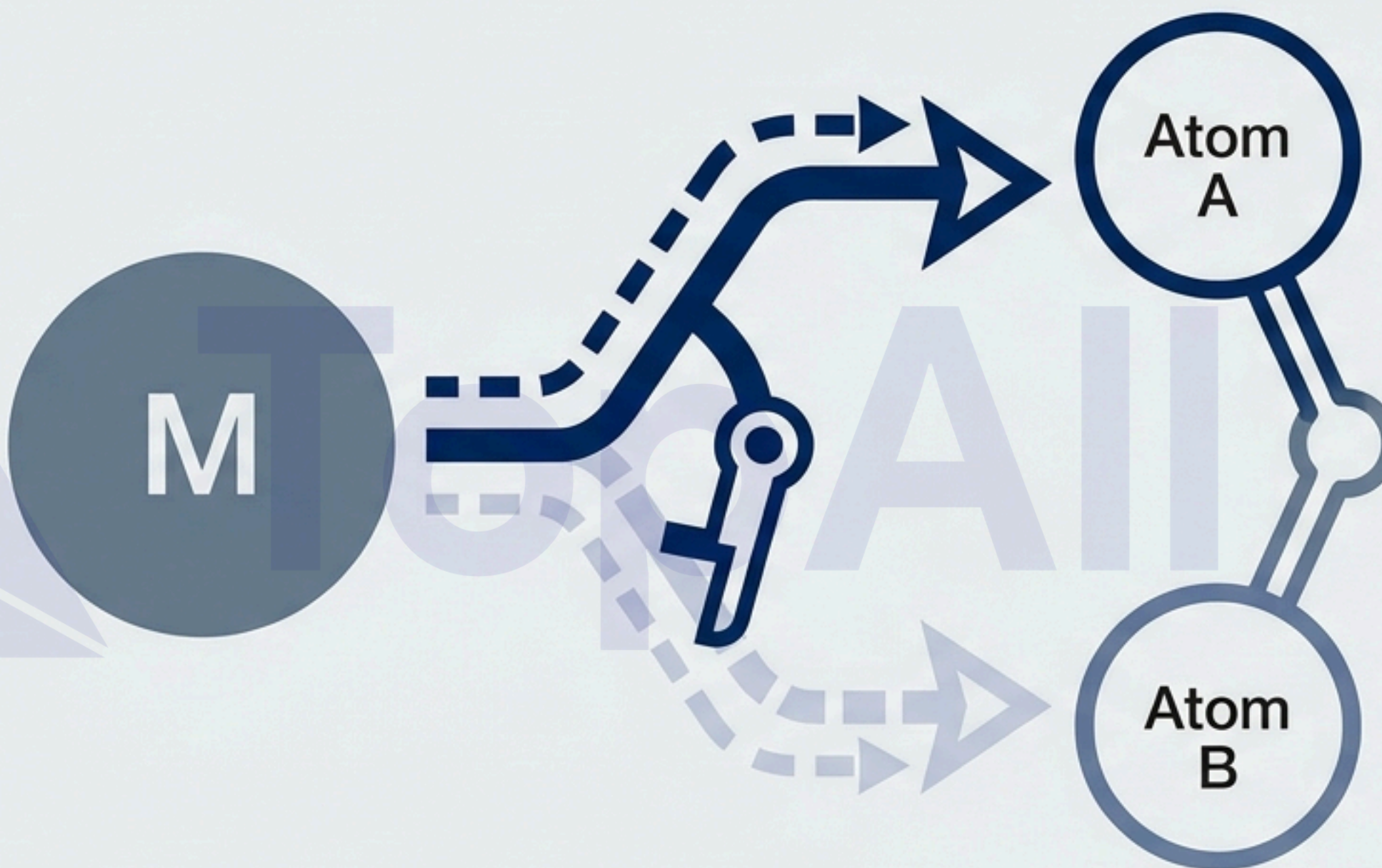
Linkage Isomerism



Ambidentate Ligand

A ligand with two different donor atoms, but **only one** can bind to the central metal at a time.

THE TOGGLE CONNECTION





You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



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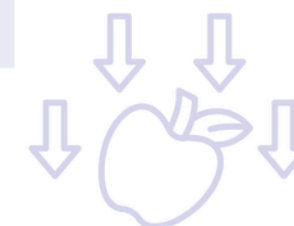
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Key Highlights

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The Jørgensen Discovery



Nitrito (bound via Oxygen)



Nitro (bound via Nitrogen)

Discovered by Jørgensen — exact same formula, two distinct colors.

The Thiocyanate Shift



OR

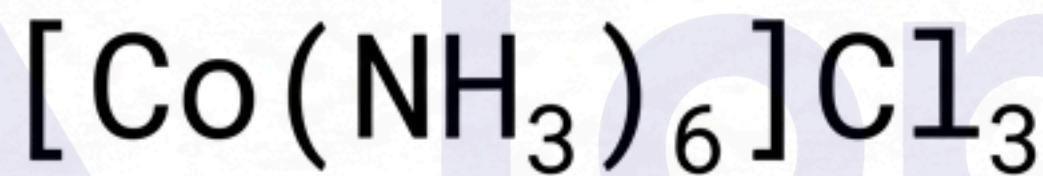


Isothiocyanato (binding via N)

Thiocyanato (binding via S)

Watch for this:

No ambidentate ligand = exactly 0 linkage isomers.



Ammonia only has Nitrogen to donate.
The toggle switch does not exist here.

Answer: 0

Key Takeaways

- ✓ Linkage isomerism is impossible without an ambidentate ligand acting as a toggle switch.
- ✓ Memorize the two highest-yield exam examples: NO_2^- (nitro/nitrito) and SCN^- (thiocyanato/isothiocyanato).



You've Learned the Theory.

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