

# OCR (B) Chemistry A-Level

## DM2 - Bonding and Structure

### Flashcards

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What is meant by *coordination number*?



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The number of coordinate bonds from ligands to the central metal ion/atom.

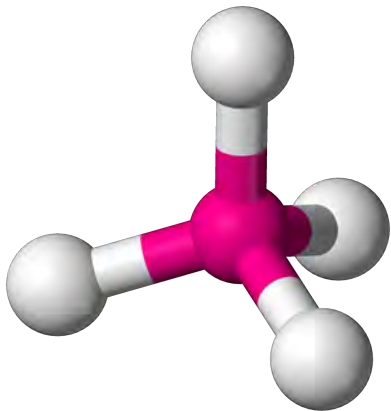


What are the two bond shapes in common with a complex with a coordination number of 4?

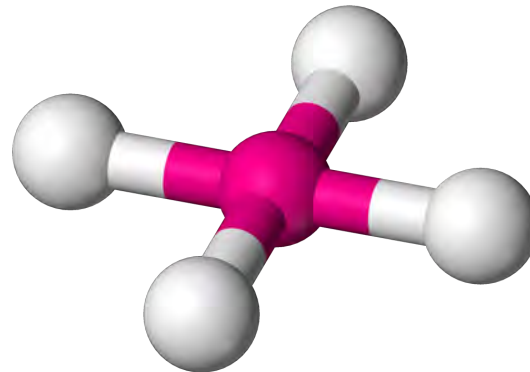


What are the two bond shapes in common with a complex with a coordination number of 4?

- Tetrahedral



- Square planar



What is the bond angle for a tetrahedral complex?



What is the bond angle for a tetrahedral complex?

109.5°



What is the bond angle for a square planar complex?





What is the bond angle for a square planar complex?

90°

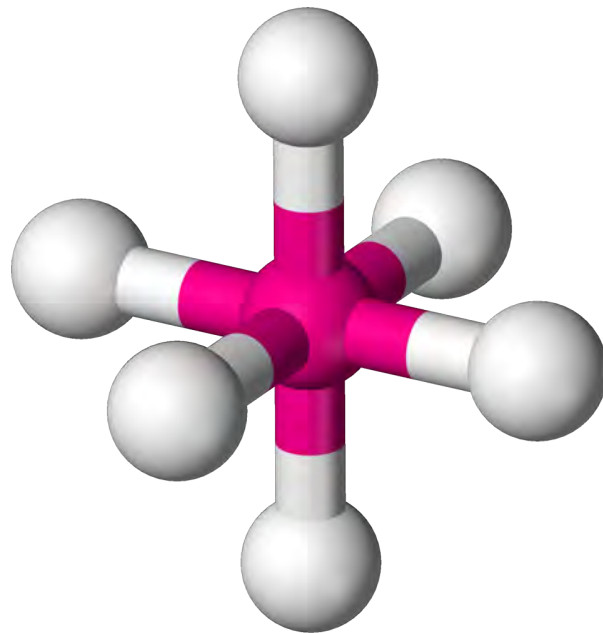


What is the bond shape for a complex ion with a coordination number of 6?



What is the bond shape for a complex ion with a coordination number of 6?

Octahedral



What is the bond angle for a complex ion with a coordination number of 6?



What is the bond shape and angle for a complex ion with a coordination number of 6?

90°

