

NCERT/CBSE CHEMISTRY CLASS 12 textbook

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CHAPTER EIGHT

The d- and f-Block Elements

8.37

Comment on the statement that elements of the first transition series possess many properties different from those of heavier transition elements.

Elements of the first transition series possess many properties different from those of heavier transition elements. Some of the properties are given below.

- (1) Melting and boiling points :- The Melting and boiling points of the first transition series is less as compared to the heavier elements. This is because the heavier elements have strong intermetallic bonding.
- (2) Atomic Radii :- Atomic radii of the heavier transition elements are higher than that of the elements of the first transition series.
- (3) Ionisation enthalpies. :- The Ionisation enthalpies of 3d and 4d series is less than that of 5d series.

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