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Class 12 Chemistry

Named Reactions & Key Formulas

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Physical Chemistry Formulas

- Nernst equation relates cell potential to concentration.
- Rate of reaction and order: first-order half-life $t = 0.693/k$.
- Raoult's law: partial vapour pressure is proportional to mole fraction.
- Colligative properties: relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure.

Organic Named Reactions

- Aldol condensation, Cannizzaro reaction and Hell-Volhard-Zelinsky reaction.
- Sandmeyer, Gatterman and Rosenmund reduction reactions.
- Williamson ether synthesis and Kolbe's reaction.
- Reimer-Tiemann reaction for phenols.

Inorganic Essentials

- d- and f-block elements: variable oxidation states and coloured ions.
- Coordination compounds: ligands, coordination number and IUPAC naming.
- Lanthanoid contraction and its consequences.
- Extraction of metals: roasting, calcination and reduction.

Want the full Chemistry PDF with mechanisms and solved numericals?

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