

CBSE CLASS 12 CHEMISTRY • SECTION 8.5

Uses of Aldehydes and Ketones

From biological preservation to heavy industrial solvents and consumer fragrances.



Industrial Solvents
& Polymers



Biological
Preservation



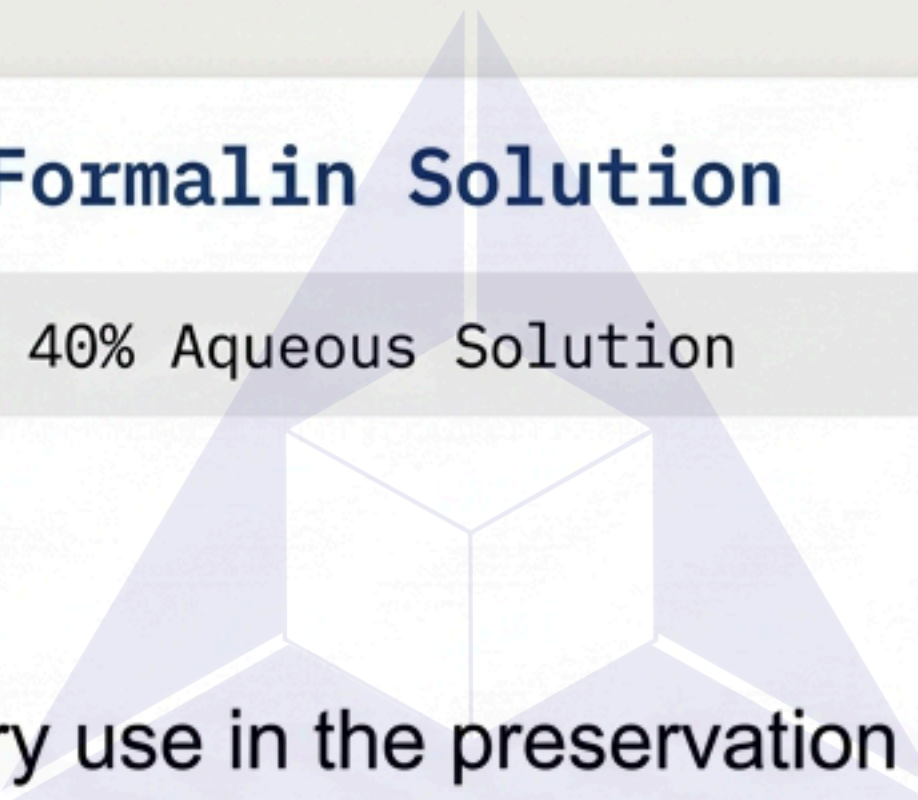
Consumer Goods
(Flavours & Fragrances)

Formaldehyde (Methanal)



Formalin Solution

40% Aqueous Solution



Primary use in the preservation of biological specimens.

Polymeric Products

Phenol-Formaldehyde / Urea-Formaldehyde

Used in preparing Bakelite (resins) and industrial glues.

Key Takeaway: Formaldehyde's high reactivity makes it a versatile linchpin, functioning as both a biological preservative and a structural polymer base.



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

$$E=mc^2$$



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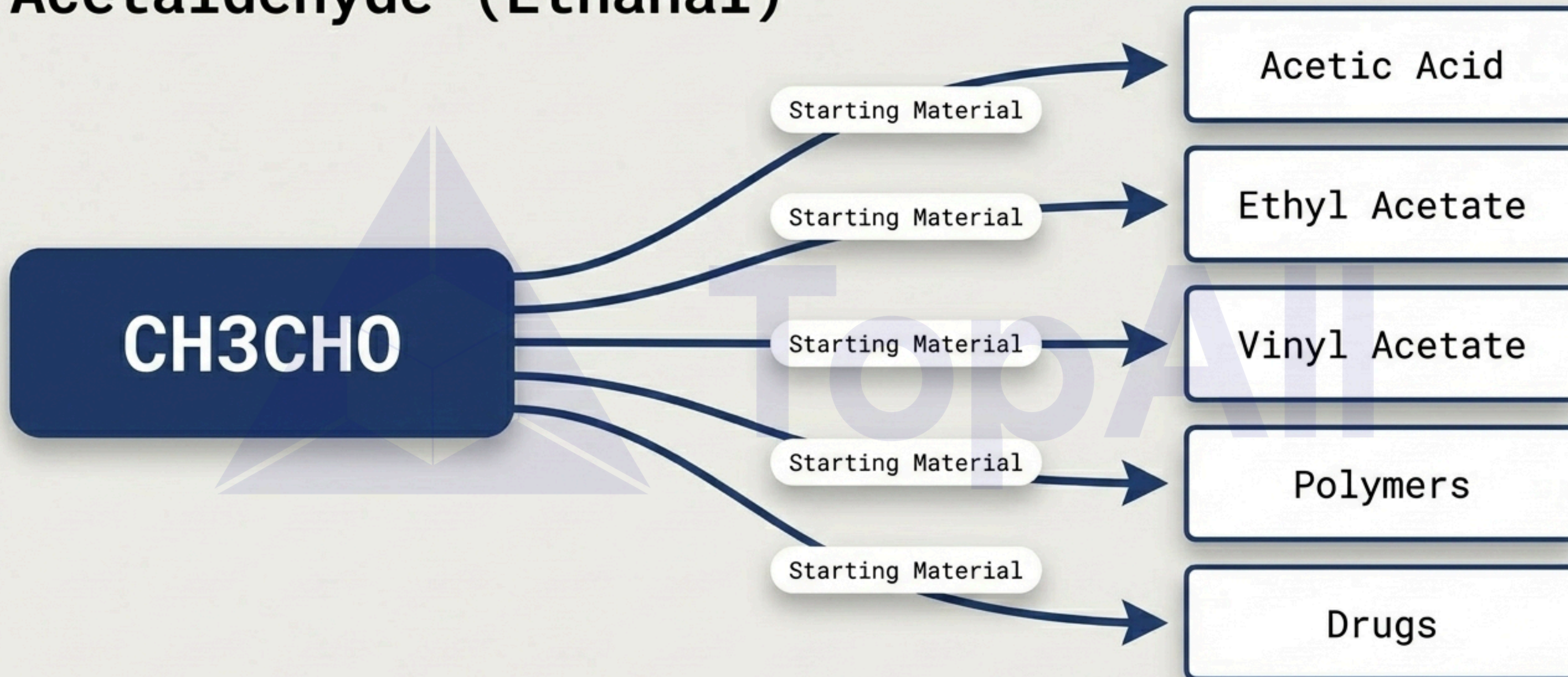
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Key Highlights

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- » Get Clear Explanations, Not Just Marks
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Acetaldehyde (Ethanal)



Unlike end-use solvents, acetaldehyde acts primarily as a chemical stepping stone for complex manufacturing and synthesis.

Benzaldehyde, Acetone, & Ethyl Methyl Ketone



Benzaldehyde

Aromatic Aldehyde

Perfumery and dye industries.

Fragrance & Dye



Acetone
(Propanone)

Dialkyl Ketone

Common industrial solvent.

Solvent



Ethyl Methyl Ketone
(Butanone)

Alkyl Ketone

Common industrial solvent.

Solvent

Industrial Application Matrix

Q1. Industrial Solvents

Acetone, Ethyl Methyl Ketone

Q2. Structural Polymers

Formaldehyde (Bakelite/Glues),
Acetaldehyde

Q3. Starting Intermediates

Acetaldehyde (for acetic acid,
drugs, acetates)

Q4. Odours & Flavourings

Benzaldehyde, Butyraldehyde,
Vanillin, Acetophenone, Camphor

Exam-Smart Takeaway: Pattern Recognition: Lower aliphatic carbonyls dominate as highly volatile solvents and polymer precursors, while higher molecular weight and aromatic carbonyls dominate the fragrance and flavour industries.



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