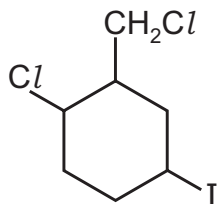


30 Compound X,  $C_7H_{11}ICl_2$ , is dissolved in ethanol and the solution mixed with warm aqueous silver nitrate.

A precipitate is seen immediately.

compound X



What is the colour of this precipitate and what is the structural formula of the **first** organic product?

	colour of the precipitate	structural formula of the <b>first</b> organic product
<b>A</b>	cream	<p>Structure A: A cyclohexane ring with a chloromethyl group (<math>CH_2Cl</math>) at the 1-position and hydroxyl groups (OH) at the 2 and 4 positions.</p>
<b>B</b>	cream	<p>Structure B: A cyclohexane ring with a hydroxymethyl group (<math>CH_2OH</math>) at the 1-position and hydroxyl groups (OH) at the 2 and 4 positions.</p>
<b>C</b>	white	<p>Structure C: A cyclohexane ring with a hydroxymethyl group (<math>CH_2OH</math>) at the 1-position, a hydroxyl group (OH) at the 2-position, and an iodine atom (I) at the 4-position.</p>
<b>D</b>	yellow	<p>Structure D: A cyclohexane ring with a chloromethyl group (<math>CH_2Cl</math>) at the 1-position, a chlorine atom (Cl) at the 2-position, and a hydroxyl group (OH) at the 4-position.</p>