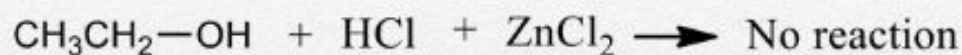


Lucas test

Lucas reagents (anhydrous $\text{ZnCl}_2 + \text{HCl}$) are used to distinguish primary, secondary and tertiary alcohols. This test is known as **Lucas test**. Their effect on primary, secondary and tertiary alcohols is given below :

1. Primary alcohols do not react with Lucas reagents.
2. **White turbidity appears after 5 to 10 minutes** when Lucas reagent reacts with **secondary alcohols**.
3. **Turbidity appears immediately** when Lucas reagent reacts with **tertiary alcohols**.

Used to distinguish between a primary, secondary and tertiary alcohol.



Primary alcohol



Secondary alcohol

Insoluble



Tertiary alcohol

Insoluble