

GIVEN: UNKNOWN LIQUID ALCOHOL,  
ALDEHYDE, OR KETONE

TASK: IDENTIFY IT

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GENERAL APPROACH:

- IS IT AN ALCOHOL, ALDEHYDE, OR KETONE?
- WHAT OTHER STRUCTURAL FEATURES DOES IT HAVE?
- CONVERT THE LIQUID UNKNOWN TO A SOLID DERIVATIVE, PURIFY IT, AND TAKE THE MP
- CHECK MP AGAINST TABLE OF DERIVATIVE MP'S
- THIS WILL NARROW IT DOWN TO A COUPLE OF POSSIBILITIES
- CONFIRM ID BY ANALYZING NMR SPECTRUM