

IF $IHD = 0$ CAN NOT BE: ALKYNE, ALKENE
RING, ESTER
ALDEHYDE, KETONE

IF CONTAIN LESS THAN 2 OXYGENS
CAN NOT BE ESTER

IF CONTAINS NO OXYGENS CAN NOT
BE ALDEHYDE OR KETONE OR ETHER

IF CONTAINS NO NITROGEN CAN NOT BE
AMINE, AMIDE

IF $IHD < 2$ CAN NOT BE ALKYNE
DIENE, CYCLIC ALKENE, BICYCLIC

IF NOT BROAD STRETCH $\sim 3400 \text{ cm}^{-1}$
CAN NOT BE ALCOHOL

IF NO STRONG PEAK $1735 - 1710$ THEN
CAN NOT BE CARBONYL COMPOUND

IF NO PEAK $3000 - 3100 \text{ cm}^{-1}$ AND NO
PEAK $1600 - 1660$ PROBABLY NOT
ALKENE

IF NO PEAK $\sim 3300 \text{ cm}^{-1}$ AND NO
PEAK $\sim 2200 \text{ cm}^{-1}$ THEN PROBABLY
NOT ALKYNE