

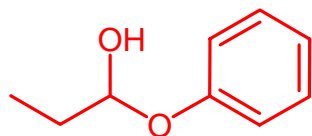
Grade 10 of 10 points

Points

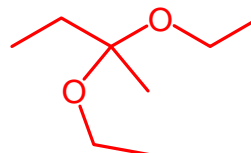
(6) 1. Draw the structures of the following:

1.5 pts each

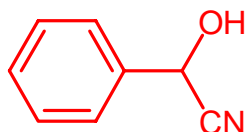
The **hemiacetal** formed between **phenol** and **propanal**:



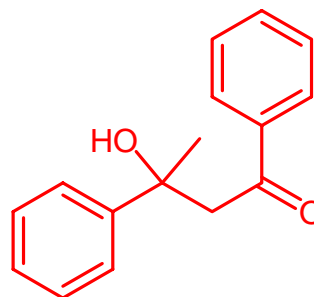
The **ketal** formed between **ethanol** and **butanone**:



The **cyanohydrin product** formed between HCN and **benzaldehyde**:

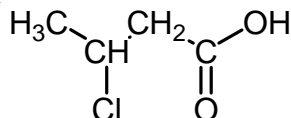


The **aldol (self-condensation)** product formed between two molecules of **methyl phenyl ketone**.



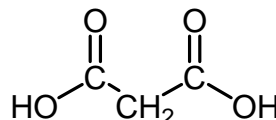
(2) 2. Give the IUPAC name and the common name for the following carboxylic acids:

0.5 pts each



IUPAC name 3-chlorobutanoic acid

Common name β -chlorobutyric acid

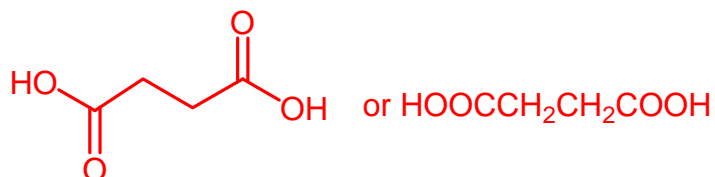


IUPAC name propanedioic acid

Common name malonic acid

(2) Draw the structure of the following carboxylic acids:

succinic acid



1 pt each

3-bromoheptanoic acid

