

Class of compounds and functional groups

Class of compound	Functional group	General form	Skeletal form
Alkene	C-C double bond	>C=C<	
Alkyne	C-C triple bond	$\text{-C}\equiv\text{C-}$	
Alcohol	Hydroxyl	ROH	
Ether	Alkoxy	ROR	
Aldehyde	Carbonyl	RCHO	
Ketone	Carbonyl	RC(=O)R	
Carboxylic acid	Carboxyl	RCOOH	
Ester	Ester	RCOOR	
Amine	Amino	RN-	
Amide	Amide	RC(=O)N-	
Halogen	Halogen	RX	
Arene	Aromatic ring		
Acyl halide	Acyl	RC(=O)X	

Anhydride	Anhydride	$\text{R}-\overset{\text{O}}{\underset{\text{O}}{\text{C}}}-\text{O}-\overset{\text{O}}{\underset{\text{O}}{\text{C}}}-\text{R}$	$\text{O}=\text{C}-\text{O}-\text{C}=\text{O}$
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Question 1: Circle and name **functional group** present in the following compounds below.



