


## A SUMMARY OF THE FUNCTIONAL GROUPS

The functional groups which have been introduced in this unit are shown in the table below. The exercise which follows is designed to help you learn to recognize the presence of specific functional groups in a given molecule.

Name	Functional Group	Name	Functional Group
alkene	C = C	ether	-O-
alkyne	C ≡ C	amine	-NH <sub>2</sub>
halide	-F, -Cl, -Br or -I	amide	-CONH <sub>2</sub>
alcohol	-OH	carboxylic acid	-COOH
aldehyde	-CHO	ester	-COO-
ketone	-CO-	aromatic ring	

### EXERCISE:

37. Circle the functional groups which exist in each of the following molecules and label each group as one of:

DOU = double bond, TRI = triple bond, ARO = aromatic ring, HAL = halide,  
 ALC = alcohol, ALD = aldehyde, KET = ketone, ETH = ether,  
 AMN = amine, AMD = amide, CAR = carboxylic acid, EST = ester.

