Naming Chemicals 2

Pre-lesson assignment – Textbook page 168-172

You will need to learn to name these functional groups Structure Name Prefix

Structure	Name	Prefix	Suffix	Example
R	Alkene		-ene	
'`				
				1
<u> </u>				Propene
Ŕ				
R	Alkyne		-yne	H_C_C_C_H
				C _C C
R				H ^C
				Ethyne
	Arene	Phenyl-	-benzene	
	Arene	Fileliyi	-benzene	
				Phenylethene
				Methylbenzene
-X	Haloalkane			Wietnylbenzene
	Chloroalkane	Chloro-		CL CLI
-Cl				CI-CH ₃
-F	Fluoroalkane	Fluoro-		Chloromethane
-Br	Bromoalkane	Bromo-		
-1	Iodoalkane	lodo-		
-OH	Alcohol	Hydroxy-	-ol	OH
				Ethanol
				OH
				2-Hydroxypropene
-CHO	Aldohydo		-al	
	Aldehyde		-di	 ✓ ✓ ✓ ✓
0::				Propanal
C				
R H				
O II C R	Ketone		-one	0
R′ \ R				
				Propanone
R-O-	Ether	(alkyl)-oxy-		/
CH₃-O-	Ether	Methoxy		-0
C113-0-		Wethoxy		Mathayyathana
				Methoxyethane
60011	Code Provide	C. I		
-COOH	Carboxylic acid	Carboxy-	-oic acid	
O				
.C.				/ `OH
R ^O OH				Ethanoic acid
-COO-R	Ester	(Alkyl)	-oate	0
-COO-C ₂ H ₅		Ethyl		. []
0::				
R ^C O-R				Ethyl propanoate
	Acid chloride		-ovl chlorida	0
0=0	Acid cilionae		-oyl chloride	Yi
R CI				CI CI
				Ethanoyl chloride
O	Acid amide		-amide	0
C				
$R^{\prime}NH_2$				NH ₂
_				Ethanamide
0 0	Acid anhydride		-oic anhydride	0 0
jj jj	. iois amysiliae		3.5 a.m.yariac	l ji ji
				_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
R' O' R				511-2
				Ethanoic anhydride
-CN	Nitrile		-Nitrile	
				N=
				Propanenitrile
-NH ₂	Amine	Amino-	-amine	NH_2
				/ ~
				Propylamine
<u> </u>	ı	ı	i	ı

		NH ₂
		2-aminopropane

Make notes on naming chemicals with functional groups

Use the following questions as guidance

- 1. Briefly explain how alkanes can be named.
- 2. Briefly explain how to name a chemical with functional groups.