Table 3.1
 Structures of Some Common Functional Groups

Nome	Structures of		Nome ending	Evorele
Name	Struc	cture*	Name ending	Example
Alkene (double bo	nd) C=	=C	-ene	H ₂ C≕CH ₂ Ethene
Alkyne (triple bone		= C−	-yne	HC≡CH Ethyne
Arene (aromatic r	ring)		None	Benzene
Halide	(X =	X F, Cl, Br, I)	None	CH ₃ Cl Chloromethane
Alcohol		OH	-ol	CH ₃ OH Methanol
Ether	C	0 0	ether	CH ₃ OCH ₃ Dimethyl ether
Monophos	phate	0 	phosphate	CH ₃ OPO ₃ ²⁻ Methyl phosphate
Amine		N:	-amine	CH ₃ NH ₂ Methylamine
Imine (Schiff base	e)	:N 	None	NH CH ₃ CCH ₃ Acetone imine
Nitrile	—С	≡N	-nitrile	CH ₃ C≡ <mark>N</mark> Ethanenitrile
Nitro		0 +N 0-	None	CH ₃ NO ₂ Nitromethane
Thiol		SH	-thiol	CH ₃ SH Methanethiol

^{*}The bonds whose connections aren't specified are assumed to be attached to carbon or hydrogen atoms in the rest of the molecule.

(continued)

 Table 3.1
 Structures of Some Common Functional Groups (continued)

10016 2.1	Table 3.1 Structures of Some Common Functional Groups (Continued)					
Name	Structure*	Name ending	Example			
Sulfide	c s c	sulfide	CH ₃ SCH ₃ Dimethyl sulfide			
Disulfide	c s s c	disulfide	CH ₃ SSCH ₃ Dimethyl disulfide			
Carbon	nyl O C					
Aldehyde	CH	-al	O CH ₃ CH Ethanal			
Ketone	C C C	-one	O CH ₃ CCH ₃ Propanone			
Carboxylic	acid O C C OH	-oic acid	O CH ₃ COH Ethanoic acid			
Ester	C C C	-oate	O CH ₃ COCH ₃ Methyl ethanoate			
Amide	C C N	-amide	O CH ₃ CNH ₂ Ethanamide			
Carboxylic anhydride	acid O O O O O O O O O O O O O O O O O O O	-oic anhydride	O O CH ₃ COCCH ₃ Ethanoic anhydride			
Carboxylic chloride	acid O C C	-oyl chloride	O CH ₃ CCI Ethanoyl chloride			

^{*}The bonds whose connections aren't specified are assumed to be attached to carbon or hydrogen atoms in the rest of the molecule.