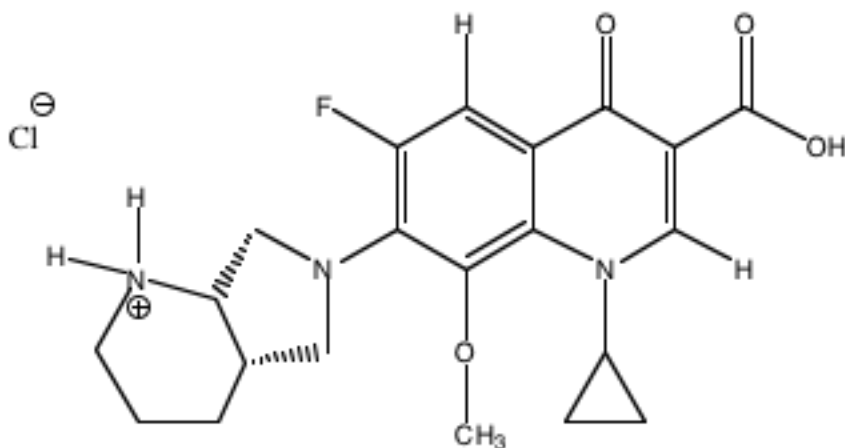
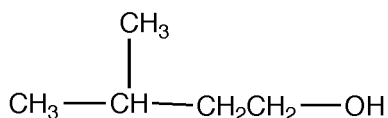


### Exercise 2: Nomenclature and functional groups

1. Identify **all functional groups** in Vigamox (moxifloxacin hydrochloride), by circling the functional group and labeling it. For alcohols and amines, further identify them as **primary, secondary** or **tertiary**.



2. a. Give the **common name** of the following compound, which you will use in an experiment in Chemistry 238:



b. Draw the structure of **methyl *tert*-butyl ether**, also known as MTBE, a gasoline additive that is becoming a groundwater hazard. You will have to look up what an ether is.

3. Use the **IUPAC** (systematic) nomenclature system to name the following compounds:

