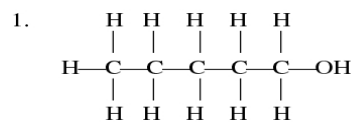# Classifying Organic Compounds by Functional Groups II
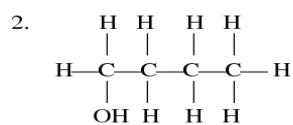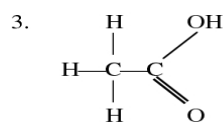
Give the IUPAC name and classify the functional group of each compound.

1.
```
     H   H   H   H   H
     |   |   |   |   |
  H—C—C—C—C—C—OH
     |   |   |   |   |
     H   H   H   H   H
```
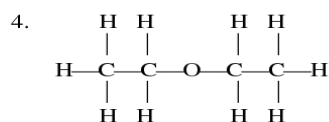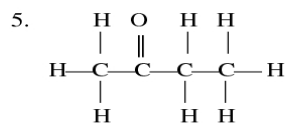
1. _____

    _____

2.
```
     H   H   H   H
     |   |   |   |
  H—C—C—C—C—H
     |   |   |   |
     OH  H   H   H
```

2. _____

    _____

3.
```
        H      OH
        |
  H—C—C
        |     ‖
        H      O
```

3. _____

    _____

4.
```
     H   H        H   H
     |   |        |   |
  H—C—C—O—C—C—H
     |   |        |   |
     H   H        H   H
```

4. _____

    _____

5.
```
     H   O   H   H
     |   ‖   |   |
  H—C—C—C—C—H
     |       |   |
     H       H   H
```

5. _____

    _____

6.
```
              H              H
              |              |
          H—C—H  H—C—H
     H   H   |              |
     |   |   |              |
  H—C—C—C————C—C—H
     |   |   |              |   |
     H   H  OH            H   H
```

6. _____

    _____