

Identification and Naming of Organic Compounds, Extra Exercises

1. In the following questions, the IUPAC names of a variety of organic compounds are provided. Draw a structural diagram for each compound and identify the organic family to which it belongs.

(a) 2-bromopentane

(b) 1,4-dichlorobenzene

(c) butanoic acid

(d) ethyl methanoate

(e) 1-butanol

(f) propanal

(g) 1,1 dichloro-2,2-difluoroethane

(h) trimethylamine

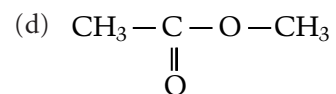
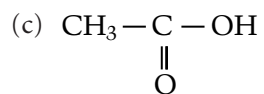
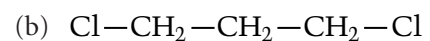
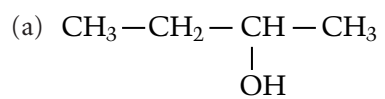
(i) 2-methyl-2-propanol

(j) propanamide

(continued)

LSM 1.4-1

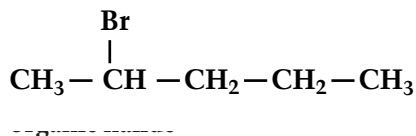
2. Give the IUPAC name for the following organic compounds represented by the given structural formula.



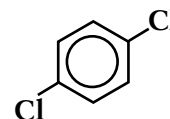
Identification and Naming of Organic Compounds, Extra Exercises, Solution

1. In the following questions, the IUPAC names of a variety of organic compounds are provided. Draw a structural diagram for each compound and identify the organic family to which it belongs.

(a) 2-bromopentane

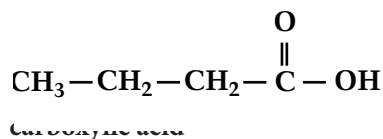


(b) 1,4-dichlorobenzene

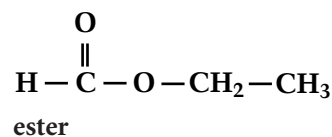


organic halide

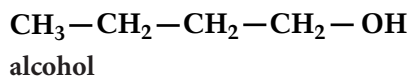
(c) butanoic acid



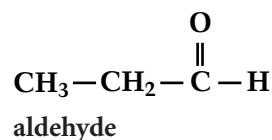
(d) ethyl methanoate



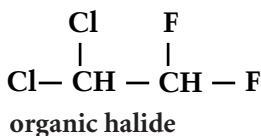
(e) 1-butanol



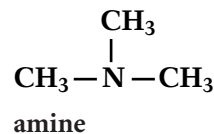
(f) propanal



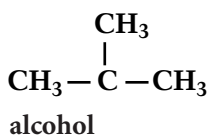
(g) 1,1 dichloro-2,2-difluoroethane



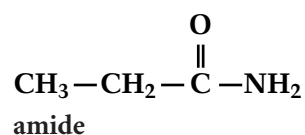
(h) trimethylamine



(i) 2-methyl-2-propanol



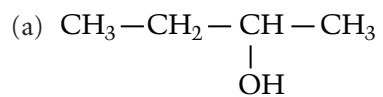
(j) propanamide



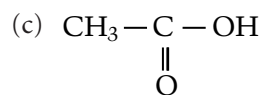
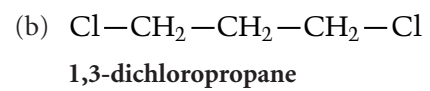
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LSM 1.4-2

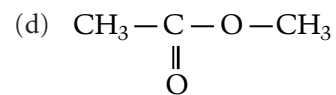
2. Give the IUPAC name for the following organic compounds represented by the given structural formula.



2-butanol



ethanoic acid



methyl ethanoate