1. a. Classify the following as primary, secondary or tertiary:

   a. \( \text{1° amine} \)
   b. \( \text{2° alcohol} \)
   c. \( \text{2° amine} \)
   d. \( \text{3° alcohol} \)

b. Circle any asymmetric/chiral centers in the above molecules.

2. Name the following.

   a. \( \text{N-ethyl-4-methyl-2-pentanamine} \)
   b. \( \text{2-ethoxy butane (or sec-butyl ethyl ether)} \)
   c. \( \text{2-iodo-5-propyl cyclohexanol} \)
   d. \( \text{N,N-dimethyl-1-propanamine (or dimethyl propyl amine)} \)
e. 1-bromo-2-methylbenzene
or
0-bromomethylbenzene
or
0-bromotoluene

f. butanal

g. 4,5-dichloro-3-hexanone

h. isopropyl 3-ethylpentanoate

i. 4-ethyl-4,6-dimethyloctanoic acid