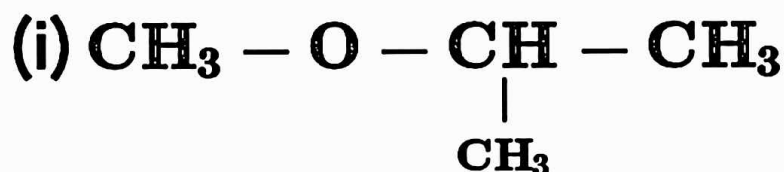


(a) Write IUPAC names of the following compounds:



(b) Write equations of the following chemical reactions:

(i) Phenol reacts with conc. HNO_3

(ii) Phenol reacts with zinc dust.

Answer

(a)

(i) The IUPAC name is 2-methoxypropane.

(ii) The IUPAC name is 2-methylpropan-1-ol.

(b)

(i) Phenol reacts with conc. HNO_3 in presence of concentric H_2SO_4 to form 2,4,6-trinitrophenol.

(ii) Phenol reacts with zinc dust to form benzene.