Problem

The composition of petrol by weight was found to be C = 84% & H = 16%, Calculate

a. Min. air required for complete combustion of 1kg of petrol.
b. Calorific value of fuel.

Problem

1 kg of a fuel oil has the following composition on analysis C = 90%, H = 6%, S = 2.5%, O2 = 1%, ash = 0.5%. Calculate the quantity of the air required for the complete combustion of 1kg of fuel by weight and by volume.

Problem

A gaseous fuel has the following composition CO = 46%, CH_4 = 10%, C_2H_2 = 2%, N_2 = 1% and H_2 = 40% calculate the volume of air required for the complete combustion of 1m^3 of fuel.