Answer on Question #80860 - Chemistry - General Chemistry

Question:

if the concentration of p in the soil is 50 ppm and the crop to be planted requires an amount of 300 kg/ha of P. how much P2O5 in kg/ha should be added to the soil in order to meet the crop demand?

Solution:

m = 300 kg in 1 ha

c = 50 ppm = 50 mg/kg

So, in 1 ha: m(P2O5) = 300*50 = 15000 mg = 15 g = 0.015 kg;

So, concentration: 0.015 kg/ha.

Answer: 0.015 kg/ha.