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# To determine alkalinity of given sample
H2S04_reg = float(input("Enter the volume of H2S04 required in ml:"))
Sample = float(input("Enter the value of sample in litres:"))
AlkalinityRemoved = H2S04_reg
print("AlkalinityRemoved: ",AlkalinityRemoved, "'mg")
Alkmgperlith = AlkalinityRemoved/ Sample
print("TotalAlkalinity:",Alkmgperlith,"mg/lit")
OH= float (input("Enter the value of OH-Alkalinity present : "))
#Alkalinity removed till pH of 8.3
H2S04_req = float (input("Enter the volume of H2S04 required in ml :"))
AlkalinityRemoved = H2S04_req
print("AlkalinityRemoved: ",AlkalinityRemoved, "mg")
CO3_Combined = AlkalinityRemoved / Sample
print ("Carbonate Alkalinity upto pH8.3:",CO3_Combined, "mgperlith" )
CO3 = CO3_Combined - OH
print("Carbonate Alkalinity:", CO3,"'mg/lit")
HCO3 =Alkmgperlith - 2*CO3-OH
print("Bicarbonate Alkalinity:", HCO3, "mg/it")
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Enter the volume of H2S04 required in ml:30
Enter the value of sample in litres:0.2
AlkalinityRemoved: 30.0 'mg
TotalAlkalinity: 150.0 mg/lit
Enter the value of OH-Alkalinity present : 5
Enter the volume of H2S04 required in ml :11
AlkalinityRemoved: 11.0 mg
Carbonate Alkalinity upto pH8.3: 55.0 mgperlith
Carbonate Alkalinity: 50.0 'mg/lit
Bicarbonate Alkalinity: 45.0 mg/it
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