

10/9/23, 4:49 PM # To determine alkalinity of given sample ASSIGNMENT 8..ipynb - Colaboratory

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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

[https://colab.research.google.com/drive/1XFwKTSn-88CmoX\\_3Fwd4meJelM-7yvQT#printMode=true](https://colab.research.google.com/drive/1XFwKTSn-88CmoX_3Fwd4meJelM-7yvQT#printMode=true)

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