analysis

May 8, 2023

1 Modules

0.01

0.0108

```
[]: import pandas as pd
        Data
    \mathbf{2}
[]: titulationNaOH = pd.read_csv("NaOH.txt")
     titulationHCl = pd.read_csv("HCl.txt")
[]: titulationNaOH
[]:
        potassium-acid-phthalate(g)
                                        NaOH(L)
     0
                                 0.31
                                         0.0157
     1
                                 0.30
                                         0.0156
     2
                                 0.30
                                         0.0154
     3
                                 0.33
                                         0.0159
                                 0.29
     4
                                         0.0149
     5
                                 0.30
                                         0.0149
     6
                                 0.31
                                         0.0152
     7
                                 0.31
                                         0.0153
     8
                                 0.30
                                         0.0150
     9
                                 0.32
                                         0.0155
     {\tt titulation HCl}
                 NaOH(L)
[]:
        HCl(L)
     0
          0.01
                  0.0107
     1
          0.01
                  0.0106
     2
          0.01
                  0.0106
          0.01
     3
                  0.0109
     4
          0.01
                  0.0107
     5
          0.01
                  0.0107
     6
          0.01
                  0.0108
     7
          0.01
                  0.0106
     8
          0.01
                  0.0105
```

3 Titulation NaOH

3.1 Quantity(g) of potassium acid phthalate

```
15 \cdot 10^{-3}L \cdot \frac{1mol}{L} \cdot 1 \cdot 204g/mol = 3.06g
```

[]: 'NaOH mols = (0.0015+-0.0001) mols, Concetration NaOH = (0.0981+-0.003) M'

4 Titulation HCl

[]: 'Concetration HCl = (0.105+-0.003) M'