**ASSAY Filippos Chatzitofi**

 **F16190**

**Analyt: Benzoic acid**

**Volumetric solution: 0,1M sodium hydroxide**

**Titre of volumetric solution: 0,9998**

**Type of titration: acid-base titration**

|  |  |  |  |
| --- | --- | --- | --- |
| **Titration No.** | **m [g]** *(4 decimal places) or* **V [ml]** | **Consumption of VS [ml]** | **ASSAY** |
| **1.** | **0.2002g** | **14.38ml** | **87.68%** |
| **2.** | **0.2004g** | **14.57ml** | **88.75%** |
| **3.** | **0.1999g** | **14.08ml** | **85.98%** |
| **4.** | **0.1998g** | **14.24ml** | **87.005%** |
|  **Average** | **87.35%** |

**STATISTICAL EVALUATION:**

**Range: R =2.77**

**Standard deviation** *(estimated from range)***: sd = 1.3453**

**Relative standard deviation: RSD = 1.5402**

**CONCLUSION** *(does your sample meet/not meet Ph. Eur).***:**

**Average values should be between 38,5-61,5, mine is 87,35 so it does not meet ph eur.**