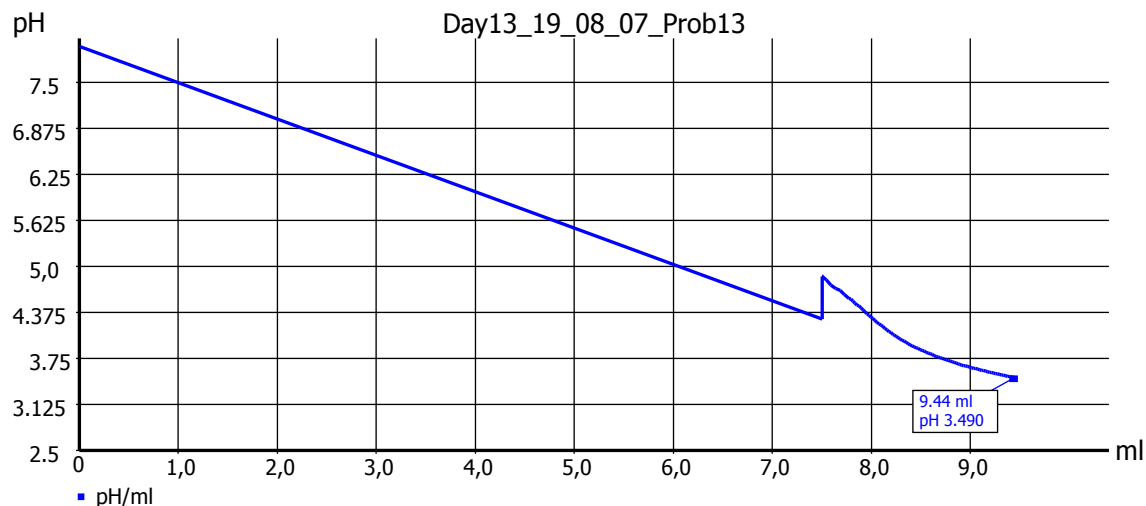


## GLP documentation



### Method data

|              |                       |                     |          |
|--------------|-----------------------|---------------------|----------|
| Method name: | Alkalinity preT7.5[1] | Titration duration: | 4 m 25 s |
| End date:    | 08/07/19              | End time:           | 11:47:46 |

### Titration data

|                    |                       |                  |                          |
|--------------------|-----------------------|------------------|--------------------------|
| Sample ID:         | Day13_19_08_07_Prob13 | Weight:          | 1.00000 g                |
| Start pH:          | pH 7.986              | End pH:          | pH 3.487                 |
| Start temperature: | 26.7 °C (a)           | End temperature: | 26.5 °C (a)              |
| Zero point:        | pH 6.84 / -9.1 mV     | Slope:           | 98.5 % / -58.3 mV/pH (a) |
| EP:                | 9.4400 ml / pH 3.490  | Result:          | 9.44 ml                  |

### Calculation formula

|                  |                         |                 |               |
|------------------|-------------------------|-----------------|---------------|
| Result:          | $(EP1-B)*T*M*F1/(W*F2)$ |                 |               |
| Mol (M)          | 1.00000                 | Decimal places: | 2             |
| Blank value (B): | 0.0000 ml               | Titre (T):      | 1 (m)         |
| Factor 1 (F1):   | 1.0000                  | Weight (W):     | 1.00000 g (f) |
| Factor 2 (F2):   | 1.0000                  | Statistics:     | Off           |

### Device information

Device: TitroLine 7000  
Serial number: 10012653  
Software version: 1.18.1121.247

#### Method data overall view

|                          |                       |                       |                   |
|--------------------------|-----------------------|-----------------------|-------------------|
| Method name:             | Alkalinity preT7.5[1] | Created at:           | 05/23/19 18:25:36 |
| Method type:             | Automatic titration   | Last modification:    | 07/17/19 13:45:20 |
| Measured value:          | pH                    | Damping settings:     | None              |
| Titration mode:          | End pt.               | Documentation:        | GLP               |
| Linear steps:            | 0.0200 ml             |                       |                   |
| Measuring speed / drift: | Normal                | minimum holding time: | 2 s               |
|                          |                       | maximum holding time: | 15 s              |
|                          |                       | Measuring time:       | 2 s               |
|                          |                       | Drift:                | 20 mV/min         |
| Initial waiting time:    | 0 s                   | Stirring titration:   | free              |
| Stirring start:          | free                  | Titration direction:  | Decrease          |
| Pre-titration:           | 7.5000 ml             |                       |                   |
| Pre-dosing 1:            | Off                   | Pre-dosing 2:         | Off               |
| Endpoint                 | pH 3.490              | delta endpoint:       | pH 1.100          |
|                          |                       | Endpoint delay:       | 0 s               |

#### Dosing parameter (Titration data)

|                       |                       |               |      |
|-----------------------|-----------------------|---------------|------|
| Dosing speed          | 15.00 % (6.00 ml/min) | Filling speed | 30 s |
| Maximum dosing volume | 50.0000 ml            |               |      |

#### Pre-titration

|                           |           |                      |                   |
|---------------------------|-----------|----------------------|-------------------|
| Dosing volume:            | 7.5000 ml | Pre-titration speed: | 100.00 %          |
| Filling speed:            | 30s       | Delay time:          | 0s                |
| Stirrer control:          | free      | Burette address:     | int               |
| Unit size:                | 20 ml     | Unit ID:             | 10043063          |
| Reagent:                  | HCl 0.01M | Batch ID:            | no entry          |
| Concentration:            | 0.01000   | Conc. determined at: | 05/19/19 13:07:49 |
| Expire date:              | --        | Opened/compounded:   | --                |
| Inspection according ISO: | --        | Last modification:   | 07/01/19 11:33:48 |

#### titration burette

|                |                |                   |               |
|----------------|----------------|-------------------|---------------|
| Serial number: | 10012653       | Software version: | 1.18.1121.247 |
| Name:          | TitroLine 7000 |                   |               |

#### Device information

Device: TitroLine 7000  
Serial number: 10012653  
Software version: 1.18.1121.247

Unit values

|                           |           |                      |                   |
|---------------------------|-----------|----------------------|-------------------|
| Unit size:                | 20 ml     | Unit ID:             | 10043063          |
| Reagent:                  | HCl 0.01M | Batch ID:            | no entry          |
| Concentration:            | 0.01000   | Conc. determined at: | 05/19/19 13:07:49 |
| Expire date:              | --        | Opened/compounded:   | --                |
| Inspection according ISO: | --        | Last modification:   | 07/01/19 11:33:48 |

Electrode data

|              |                  |           |            |
|--------------|------------------|-----------|------------|
| Name:        | A 162 2M-DIN-ID  | Batch ID: | C180706002 |
| Calibration: | 08/07/19 8:45:14 |           |            |

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Device information

Device: TitroLine 7000  
Serial number: 10012653  
Software version: 1.18.1121.247