

|      | mmol NaOH                                |      |      |      |      |      | mmol NaOH                               |                |                |                |                |                 | Values                                                                              | Spectral absorbance (×1000) at λ <sub>880 nm</sub> in 1 cm cuvettes      |                                                                                     |                                                                                                                    |     |     |     |     |
|------|------------------------------------------|------|------|------|------|------|-----------------------------------------|----------------|----------------|----------------|----------------|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|
|      | 0.00                                     | 0.60 | 1.07 | 1.53 | 2.00 | 2.46 | 0.00                                    | 0.60           | 1.07           | 1.53           | 2.00           | 2.46            |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.04 | 220                                      | 221  | 224  | 225  | 226  | 237  | <del>293</del>                          | <del>303</del> | <del>347</del> | <del>426</del> | <del>716</del> | <del>1252</del> |  | Maximum 5% deviation from target value: 287                              |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.08 | 244                                      | 251  | 258  | 274  | 325  | 523  | 293                                     | 300            | 323            | 397            | 570            | 951             |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.12 | 297                                      | 301  | 318  | 365  | 487  | 800  | 294                                     | 299            | 312            | 345            | 479            | 599             |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.16 | 289                                      | 299  | 304  | 335  | 409  | 611  | 293                                     | 294            | 313            | 330            | 369            | 410             |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.20 | 281                                      | 286  | 292  | 312  | 370  | 369  | 273                                     | 284            | 281            | 303            | 344            | 402             |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.24 | 261                                      | 268  | 259  | 284  | 292  | 353  |                                         |                |                |                |                |                 |  | Recommended setting for this solution                                    |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.28 | 1 mg/L NTMP-P<br>0.01 M CitOH<br>pH 3.10 |      |      |      |      |      | 1 mg/L NTMP-P<br>0.01 M AcOH<br>pH 4.72 |                |                |                |                |                 |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.32 |                                          |      |      |      |      |      |                                         |                |                |                |                |                 |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.36 |                                          |      |      |      |      |      |                                         |                |                |                |                |                 |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.40 |                                          |      |      |      |      |      |                                         |                |                |                |                |                 |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
|      |                                          |      |      |      |      |      |                                         |                |                |                |                |                 |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.04 | 1 mg/L NTMP-P<br>0.01 M MES, pH 6.17     |      |      |      |      |      | 1 mg/L NTMP-P<br>0.01 M MOPS, pH 7.15   |                |                |                |                |                 |  | K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> amount corresponding to COD |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.08 |                                          |      |      |      |      |      |                                         |                |                |                |                |                 |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.12 |                                          |      |      |      |      |      |                                         |                |                |                |                |                 |                                                                                     |                                                                          | 244                                                                                 | 249                                                                                                                | 255 | 269 | 354 | 508 |
| 0.16 |                                          |      |      |      |      |      |                                         |                |                |                |                |                 |                                                                                     |                                                                          | 280                                                                                 | 292                                                                                                                | 292 | 306 | 343 | 479 |
| 0.20 | 289                                      | 292  | 302  | 308  | 329  | 418  | <del>283</del>                          | <del>284</del> | <del>287</del> | <del>298</del> | <del>325</del> | <del>394</del>  |                                                                                     |                                                                          |  | K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> amount corresponding to theoretical oxygen demand for total oxidation |     |     |     |     |
| 0.24 | 300                                      | 290  | 285  | 308  | 313  | 381  | 280                                     | 285            | 283            | 292            | 305            | 356             |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.28 | 248                                      | 281  | 273  | 269  | 289  | 325  | 272                                     | 280            | 265            | 274            | 289            | 318             |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.32 | 297                                      | 294  | 294  | 302  | 332  | 415  | 150                                     | 263            | 259            | 263            | 264            | 273             |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.36 |                                          |      |      |      |      |      | 197                                     | 246            | 203            | 211            | 233            | 242             |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |
| 0.40 |                                          |      |      |      |      |      |                                         |                |                |                |                |                 |                                                                                     |                                                                          |                                                                                     |                                                                                                                    |     |     |     |     |