

**MADFORWATER – WP2: Adaptation of wastewater treatment technologies for agricultural reuse – Task 2.3: Agro-industrial wastewater treatment – Subtask 2.3.1: Treatment of olive mill wastewater – Olive mill wastewater treatment by polyphenol separation and anaerobic digestion**

**Guide to the consultation of the dataset**

This dataset contains the data underlying the following publication: D. Pinelli, A.E. Molina Bacca, A. Kaushik, S. Basu, M. Nocentini, L. Bertin, D. Frascari, 2016. Batch and continuous flow adsorption of phenolic compounds from olive mill wastewater: a comparison between non-ionic and ion exchange resins. International Journal of Chemical Engineering (in press).

The above cited publication deals with the testing of different resins for the separation of polyphenols from olive mill wastewater by adsorption and / or ion exchange. The description of the methodology and the discussion of the results are reported in the above mentioned publication.

Tables 1 and 2 report the characteristics of the tested wastewaters and resins.

Table 3 reports the experimental conditions tested, the resin and packed bed properties and the adsorption/desorption performances relative to the breakthrough tests.

Table 4 reports the adsorption yields relative to the 3 tested resins.

Table 5 reports the results of the packing quality assessment.

Table 6 reports the results of the isotherm tests.

Table 7 reports the results of the fluid dynamic tests conducted in a 1.8 m adsorption column.

Table 8 reports the results of the polyphenol adsorption tests conducted in a 1.8 m adsorption column.