**Ultra-processed Food Dataset**

Introduced by Menegozzo et al. in CIPCaD-Bench: Continuous Industrial Process datasets for benchmarking Causal Discovery methods

The raw data are obtained from an industrial plant for ultra-processed food production. The sampling was carried out every 5 minutes while the total production cycle takes approximately 3 hours, from raw ingredients to final semi- finished products. The extracted data represent approximately 80 days of production. Variables 2 − 14 belonging to 4 specific phases of the process and influence the qualitative variable 17. Variables 15 and 16 are external variables not controlled by the process which affect the final product. It should also be noted that some variation may be due to changes in raw materials, in production flow (variable 1) or to possible reconfiguration between weeks. However while the magnitude of effects may change between weeks, the causal relationships are dictated by the plant and process dynamics and are consistent (at the best of potential un-cofounder and faults) throughout the production.