

DFS TD - Synthesis Reaction ELN Data

This page describes the common particularities for the Synthesis Reaction tests

Summary

- [Mapping Details](#)
- [ELN Data](#)
 - [synthesis_raw_data_link](#)
 - [synthesis_eln_data](#)
 - [operating_procedure](#)

Mapping Details

This spreadsheet has the mapping details for all Synthesis ELN data:

[Mapping Spreadsheet](#)

ELN Data

The following tables, extracted from the ELN spreadsheets, are used for the enrichment of the raw data.

These files are available on:

Path
...\\DATA\\[ENV]\\Rn\\Silica\\XML SILICA\\XML Synthesis\\PARSED_XML_SYNTHESES\\Useful information

synthesis_raw_data_link

This table lists the links for the raw data files that need to be extracted from the Lab servers for each sample_id. It is used by the Python scripts **download_synthesis_*.py** (* stands for the scale: 25L, 80L, 170L, 2500L). It contains the following fields:

- unique_id
- study_id
- sample_id
- synthesis_file_link
- synthesis_equipment_name (indicates the scale of the reactor and the origin country of the reactor (FR/KR))
- synthesis_mode

synthesis_eln_data

This table describes the products and components that were included in the Initial Setup, but also the raw materials that were used for each sample_id and that are not present in the Initial Setup (in this case, the quantity is set to 0 or left empty). It is used by the Python scripts **compute_synthesis_*.py** (* stands for the scale: 25L, 80L, 170L, 2500L). It contains the following fields:

- unique_id
- study_id
- sample_id
- product_label
- quantity_kg
- density_kg_l
- product_form
- rp
- component_label
- quantity_w_prct (concentration)
- synthesis_equipment_name
- synthesis_mode

operating_procedure

This table contains information about the changes in the pump activity during the reaction process. It is used by the Python scripts **compute_synthesis_*.py** (* stands for the scale: 25L, 80L, 170L, 2500L). It contains the following fields:

- unique_id
- study_id

- sample_id
- synthesis_step_index
- change_to_product
- comment
- date_time
- pump_id