

# DFS TD - Synthesis Reaction ELN Data

This page describes the common particularities for the Synthesis Reaction tests

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## 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