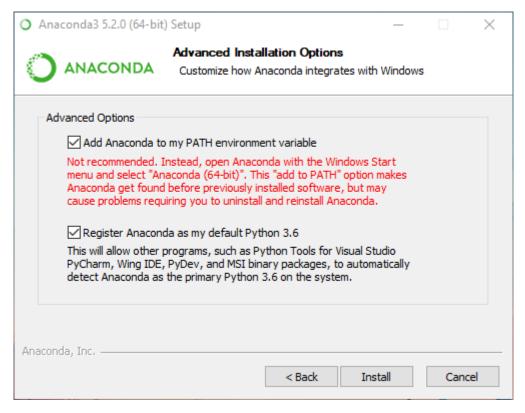


Installing and running CALLC is easy as one-two-three steps. The tool provided was tested on windows and linux platforms, but for linux it is assumed you can install the required packages yourself. The installation section of this manual is meant for users that do not have anaconda installed. If you want to use linux or have anaconda installed see the install.bat file in the install/ folder for the required packages. If you have any further questions, feel free to send your questions to: robbin.bouwmeester@ugent.be

Installation

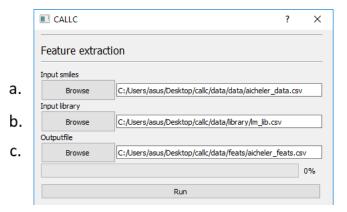
- Download the anaconda software from: https://www.anaconda.com/download/
- 2. Install anaconda by clicking on the executable you just downloaded
 - a. Make sure to add it to your path:



3. Run the install.bat file in the install folder. A black window will pop-up that will print text for a couple of minutes. When the black window disappears the required packages are installed and CALLC is ready to use.

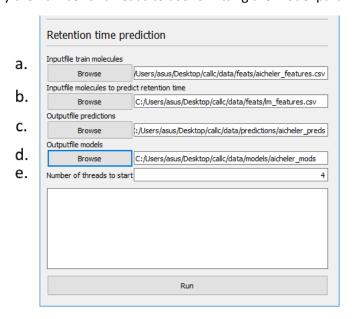
Making predictions

- 1. Run either CALCC.vbs or CALCC.bat in the folder rt/
- 2. Extract features for your train set and prediction set you want to make predictions on
 - a. Specify the location of the dataset. Train set has three columns: identifiers, SMILES and the experimentally measured retention time (see input and output files examples section for details). The set to make predictions on (e.g. LIPIDMAPS smiles in the folder rt/datasets/) has two columns: identifiers and SMILES.
 - b. Specify a library with the SMILES structure in the first column and following columns contain the features that are extracted. Defining a library can significantly speed up the process of feature extraction when the process was already performed on a part of the dataset.
 - c. Define an output file.



3. Run predictions

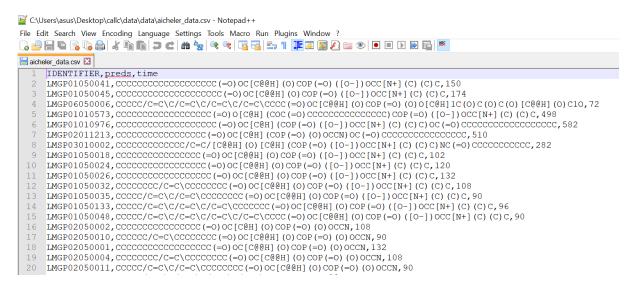
- a. Specify the input train set file with features extracted from step one
- b. Specify the dataset to make predictions on from step one
- c. Specify the output file for predictions
- d. Specify the output files for models. If you want to use these models in future for calibration specify it in the folder $rt/mods \ 11/$
- e. Specify the number of threads to use for fitting the model parameters



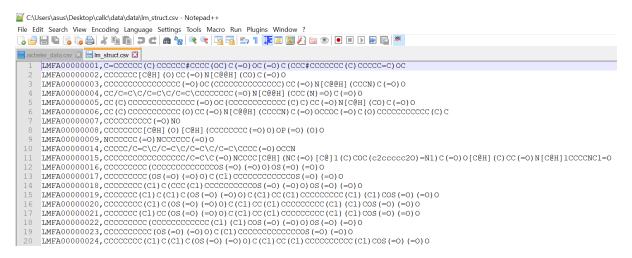
Input and output files examples

Step 2 predictions

Train file:



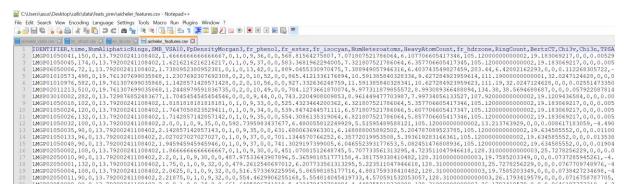
Prediction file:



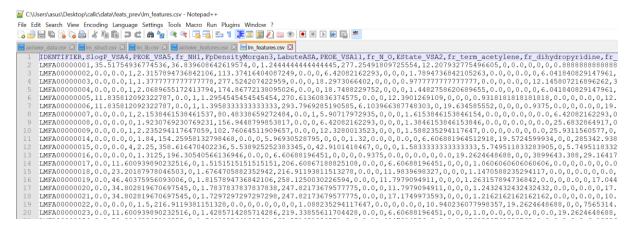
Library file:

Step 3 predictions

Input file train:



Input file predictions:



Output file predictions:

