


Analytical NIR



ANIR

ANIR flourishes at the junction of farmers' needs for a simple setup of analytical infrastructures and advanced computational chemistry in the majestic mountains of the Pyrenees. ANIR is a powerful application focusing on solving the entire NIR process chain. It calibrates raw input data, facilitates spectra acquisition, organizes analytical results, and provides customized production reports for small and large businesses.



<http://www.molspaces.com>
anir@molspaces.com

Analytical NIR

- NIR data analysis, processing and organization for chemical industries
- Historical data administration and quality control
- Report generation of analytical data
- Automatic processing, recalibration with minimal maintenance
- Outlier detection and robust regression
- Alerts on eventual sample deviation with respect to the overall calibration

ANIR consists of three modules, each corresponding to different user roles and needs.

- **Anir** – Application Administrator
- **Analyze** – Analyst Operator
- **Analytics** – Quality Control Supervisor

Anir sets and configures the entire system. Anir organizes materials and properties, automatically calibrates raw data, optionally imports external calibrations, and sets units, acceptance intervals, default multilinear, semiparametric or nonparametric regressors, and calibration quality tags.

Analyze performs production NIR analysis of raw and manufactured materials. It controls the spectrometer's settings and sample scanning, and displays results with eventual indications regarding acceptance intervals and calibration adequacy. It stores analysis data and sample metadata supplied by the operator inside the application.

Analytics displays, sorts and filters stored analytical data, sample metadata, and production annotations in tabular form. Exporting options include CSV, appropriate for further processing with spreadsheet, Excel type applications, and customized PDF reports.

