

Calisto Software



Data acquisition & Processing

For Thermal Analysis & Calorimetry

What is Calisto?

CALISTO comprises two independent parts : **CALISTO ACQUISITION** dedicated to the control and data acquisition of our Calorimetry and Thermal Analysis instruments. **CALISTO PROCESSING, for the treatment** of Calorimetry and Thermal Analysis Data independent of instrument type.

It is designed specifically for Thermal Analysis applications (DSC, TGA, STA, TMA) and Calorimetry, and is recognised as the most powerful on the market.



HIGHLIGHTS

POWERFUL BASELINE CALCULATION

CALISTO offers the latest technology in baseline calculation to allow for the correct integration of signals and therefore accurate evaluation of the thermal event.

DATA PRESENTATION

CALISTO offers the very latest in graphical data presentation including shading, logo insertion and multiple plot displays.

365 LICENCES

Time-limited subscription to the power of CALISTO, a cost effective way to ensure you always have the latest version. Comes with optional multi-licence subscription.

DIRECT EXPORT OF CHARTS IN MS WORD

Charts are automatically resized for optimum resolution, export and print reproduction.

HASSLE FREE CP CALCULATIONS

A powerful CP determination that completes the calculation in only a few clicks.

DATA INTEGRITY

CALISTO offers full data security with multiple levels and user accessibility.

Calisto Acquisition software.

CALISTO Acquisition provides a unique combination of ease-of-use and intuitive operation as well as powerful control of your instruments.

WHAT YOU CAN DO

1. Program acquisition procedures

(all experimental conditions and parameters)

2. Control one or more SETARAM systems

via a PC

3. Save experiment signals and monitor

their progress in real time

4. Change experimental conditions

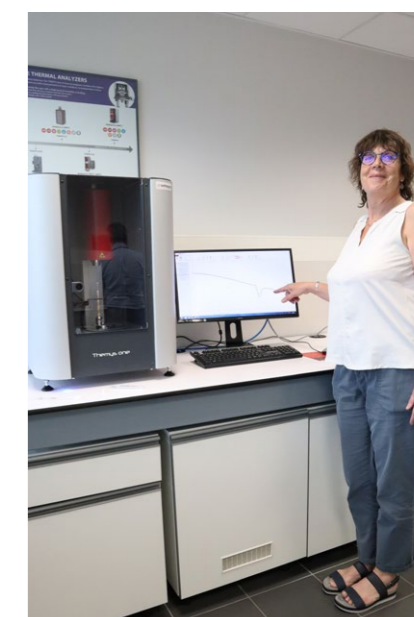
during an experiment

5. Trigger acquisition of other equipment

(mass spectrometers, FTIR...)

WHAT YOU WILL LIKE

CALISTO Acquisition software is also available for the NEW range of SETLINE products



Calisto Processing software.

The CALISTO Home Page is a powerful graphical user interface ergonomically designed with instant access to all required tools.

Switching between open curves is a simple click. Signal specific treatments appear when the signal is selected, providing a fast and easy access and a simplified layout.

WHAT YOU CAN DO

1. Imports files saved

in Calisto Acquisition

2. Imports signal files from other equipment

(mass spectrometers, FTIR...)

3. Treats recorded signals

4. Imports Temperature / Time / Signal ASCII files

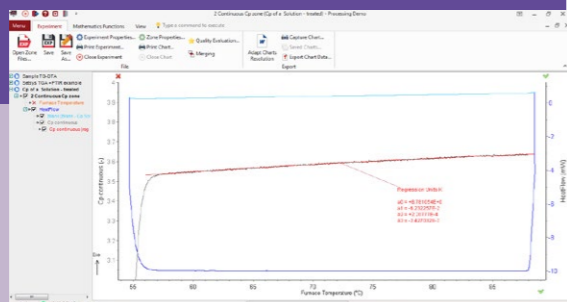
WHAT YOU WILL LIKE

CALISTO processing software provides the user the possibility to automatically generate a blank signal by extrapolation



Evaluation of heat capacity in continuous or step mode

CALISTO processing software now includes a catalogue of CP for typical reference materials, that can be implemented with user data.

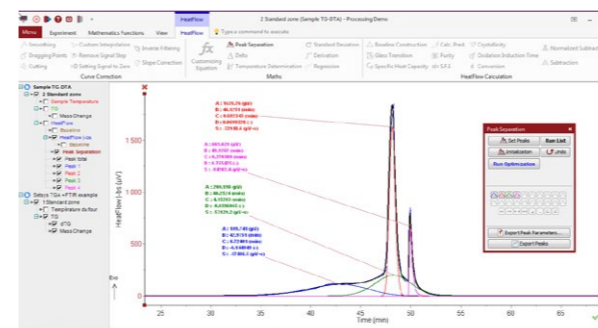


CALISTO offers two powerful CP calculation subroutines for the determination of heat capacity. These methods have been optimized to be as automated as possible, so data interpretation can be completed in a few clicks by even the most inexperienced operators.

FUNCTION ONE

Peak Deconvolution / Separation

CALISTO offers a unique peak separation procedure that allows for the interpretation of overlapped processes and characterization of the individual thermal events.

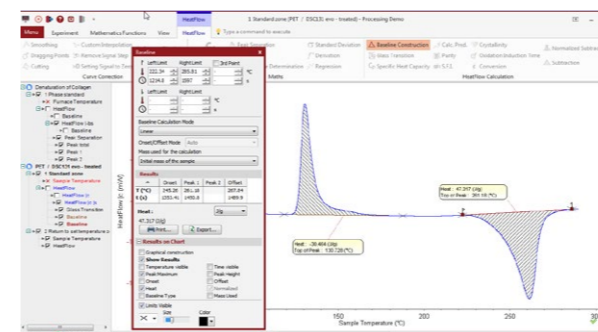


FUNCTION THREE

Baseline Selection / Subtraction

The correct integration baseline selection is one of the most critical parts of data treatment and CALISTO offers a new standard in baseline treatment with standard, and more precise options.

- Baseline Flattening: sloping baselines due to CP changes and other effects can be flattened
- Baselines: can be automatically selected or optimized visually using the zoom function.

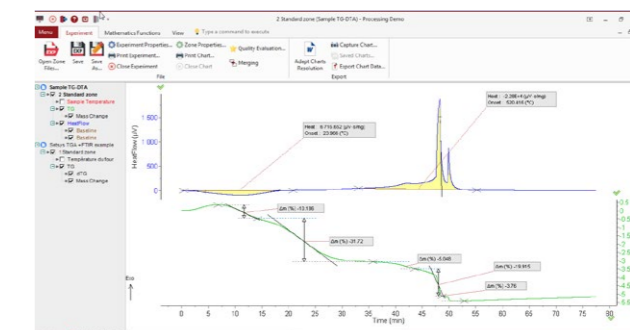


FUNCTION TWO

Data Presentation

CALISTO offers the operator a unique level of power and flexibility to present data with the maximum impact, including the following features:

- Colors: CALISTO offers coloring, shading, transparency, and even patterns
- Overlap data: multiple curves can be displayed with the same or different axis
- Data Labels: mark each curve, or highlight a specific area with customized labels and text.
- Treated curves can be saved and opened again. A single data set can be saved with various presentations. Raw data are never lost.

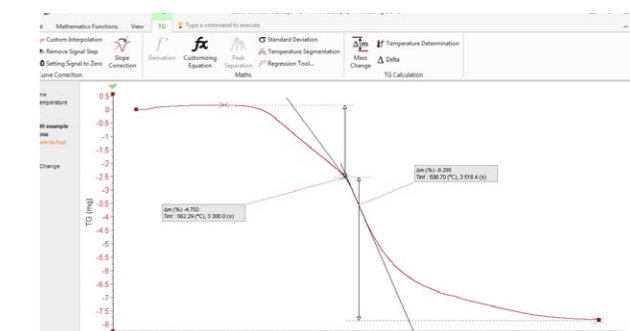


FUNCTION FOUR

Data Export

CALISTO offers the most easy-to-use and powerful data export tool:

- for graphical data (png, gif, bmp, jpg, emf...)
- for raw and treated points (xls, ascii, html, xml...).



Specifications.



CALISTO is proprietary software of SETARAM developed in partnership with AKTS.
Option : AKTS Thermokinetics software for comprehensive investigation of reaction or decomposition kinetics

Mathematical features

- Heat capacity determination
- Peak separation
- Inverse filtering
- Glass transition
- Regression analysis - data fitting
- Customize equation
- Advanced baseline construction
- Solid fat index function
- Reaction progress
- Baseline subtraction
- Normalized subtraction
- Integral function
- TMA (alpha point, true alpha, average alpha point)
- Temperature correction
- Mass variation
- Tare
- Derivative (with various filter types)
- Smoothing (Gaussian and Savitzky & Golay)
- Cut curve into sections or segments
- Slope correction
- Natural logarithm
- Drag point
- Data spike removal, etc.

Recommended configuration for CALISTO Processing

Microsoft Windows XP or higher Intel Pentium 4 CPU 3.00 Ghz 1.00 Gb of RAM

Minimum Configuration for CALISTO Acquisition and CALISTO Processing

Microsoft Windows XP or higher Intel Pentium 2 CPU 1.00 Ghz 128 Mb of RAM



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