



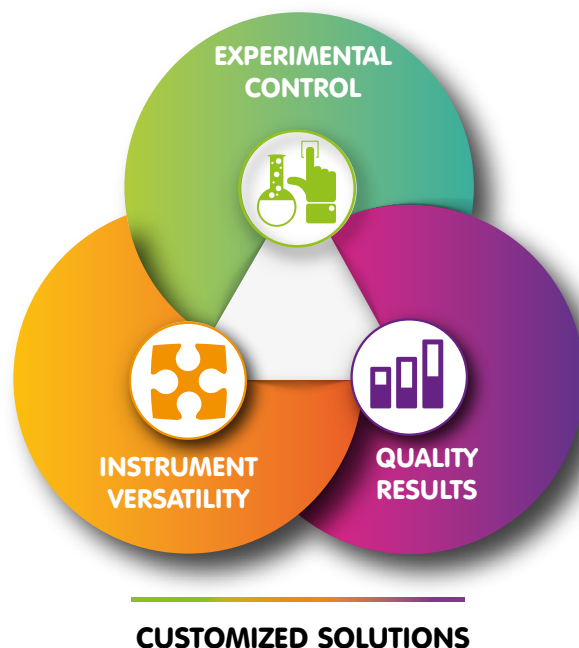
## THE KEP TECHNOLOGIES ADVANTAGE

Each SETARAM solution embodies our “Reimagine Material Characterization” value proposition by delivering the three core customer benefits of Experimental Control, Instrument Versatility and Quality Results.

We believe solutions that provide these benefits will deliver the highest value to our customers.

In addition to our core customer benefits, we are able to provide customized solutions by harnessing the engineering and project management of our highly skilled organization.

CALISTO is proprietary software of SETARAM developed in partnership with AKTS. It is designed specifically for Thermal Analysis applications (DSC, TGA, STA, TMA) and Calorimetry, and is recognised as the most powerful on the market.



## 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.

## HIGHLIGHTS



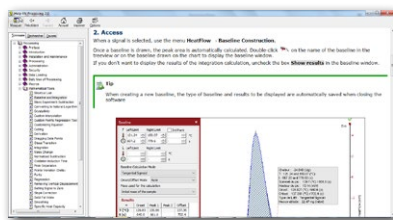
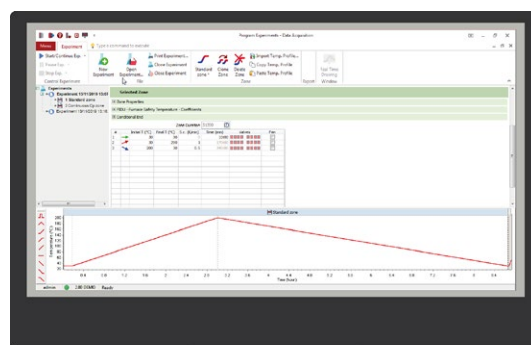
- **POWERFUL BASELINE CALCULATION:** CALISTO offers the latest technology in baseline calculation to allow for the correct integration of signals and therefore accurate evaluation of the thermal event
- **DATA PRESENTATION:** CALISTO offers the very latest in graphical data presentation including shading, logo insertion and multiple plot displays
- **NEW 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  $C_p$  CALCULATIONS:** a powerful  $C_p$  determination that completes the calculation in only a few clicks
- **DATA INTEGRITY:** CALISTO offers full data security with multiple levels and user accessibility.

## DATA ACQUISITION

### CALISTO Acquisition software:

- Program acquisition procedures (all experimental conditions and parameters)
- Control one or more SETARAM systems via a PC
- Save experiment signals and monitor their progress in real time
- Change experimental conditions during an experiment
- Trigger acquisition of other equipment (mass spectrometers, FTIR...)

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

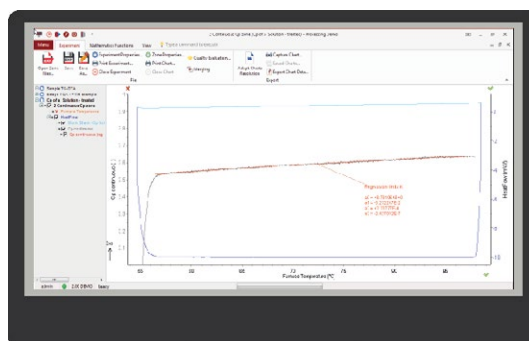


CALISTO Acquisition software is also available for the NEW range of SETLINE products.

## PROCESSING

### EVALUATION OF HEAT CAPACITY IN CONTINUOUS OR STEP MODE:

CALISTO offers two powerful  $C_p$  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.



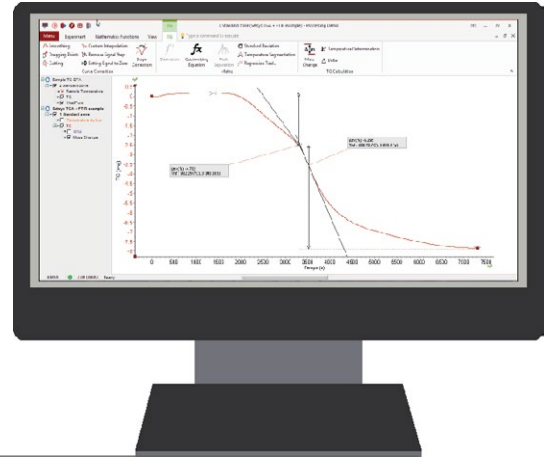
CALISTO processing software now includes a catalogue of  $C_p$  for typical reference materials, that can be implemented with user data.

## PROCESSING

### The CALISTO Processing software:

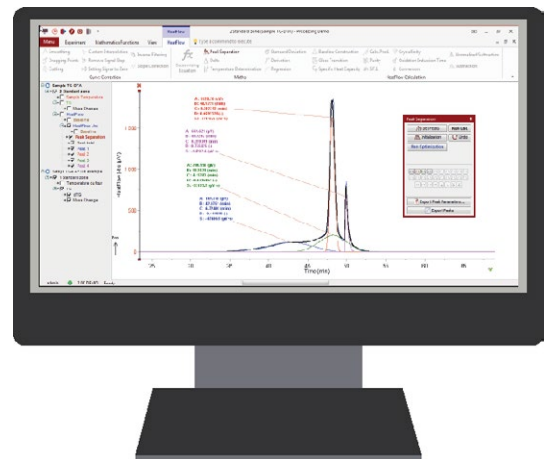
- Imports files saved in CALISTO Acquisition
- Imports signal files from other equipment (mass spectrometers, FTIR...)
- Treats recorded signals
- Imports Temperature / Time / Signal ASCII files

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.



### 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.



### 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 and transparency, and even the ability to select patterns
- **Overlap data:** multiple curves can be displayed with the same or different axis, specific colors and patterns
- **Data Labels:** mark each curve, or highlight a specific area with customized labels and text. The data in each label can be automatically generated in standard report formats
- **Treated curves can be saved and opened again.** A single data set can be saved with different presentations. The raw data is never lost.

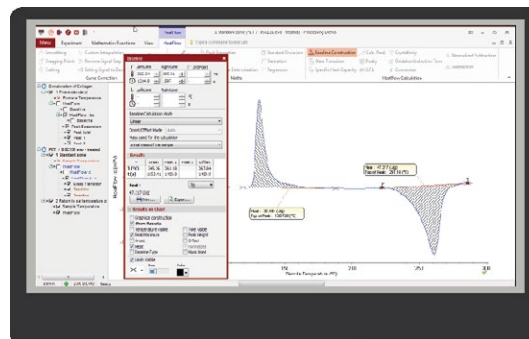


## PROCESSING

### 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  $C_p$  changes and other effects can be flattened
- **Baselines:** can be automatically selected or optimized visually using the zoom function.



### 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 calculated points (xls, ascii, html, xml...).

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

## SPECIFICATIONS

### Mathematical features include:

- 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

Option : AKTS Thermokinetics software for comprehensive investigation of reaction or decomposition kinetics

CALISTO has been developed in partnership with AKTS company





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