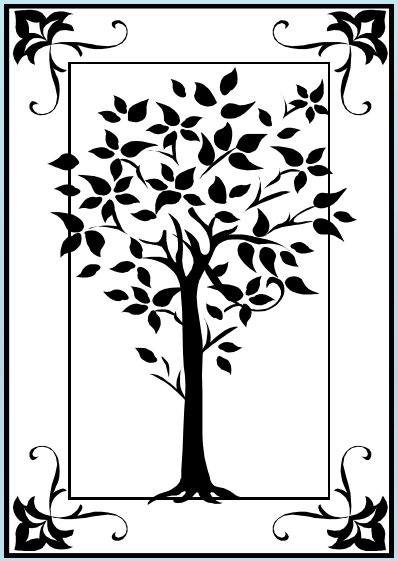
METADATA AND NUMERICAL DATA CAPTURE:
Common pure-component properties
Melting Point near 101.3 kPa pressure

Guided Data Capture (GDC)



This tutorial describes
METADATA AND NUMERICAL DATA CAPTURE:
for **Common pure-component properties:**
Melting Point at approximately 101.3 kPa pressure
with the Guided Data Capture (GDC) software.

NOTE:

The tutorials proceed sequentially to ease the descriptions. It is not necessary to enter *all* compounds before entering *all* samples, etc.

Compounds, samples, properties, etc., can be added or modified at any time.

However, the hierarchy must be maintained (i.e., a property cannot be entered, if there is no associated sample or compound.)

The experimental data used in this example is from:

1220 *J. Chem. Eng. Data* 2002, *47,* 1220−1221

Solid−Liquid Equilibria of Terephthalaldehydic Acid in Different Solvents

Dian-Qing Li,* David G. Evans, and Xue Duan

Key Laboratory of Science and Technology of Controllable Chemical Reactions, Ministry of Education, Beijing University of Chemical Technology, Beijing 100029, China

Solubilities of terephthalaldehydic acid in water, acetic acid, chloroform, *N, N*-dimethylformamide, and *N*-methyl-2-pyrrolidone were determined by a static analytical method at temperatures ranging from 293.15 K to 371.15 K at atmospheric pressure. The Buchowski equation was used to correlate the solubility data with standard deviations in the range 0.006−3.438 g of terephthalaldehydic acid/100 g of solvent.

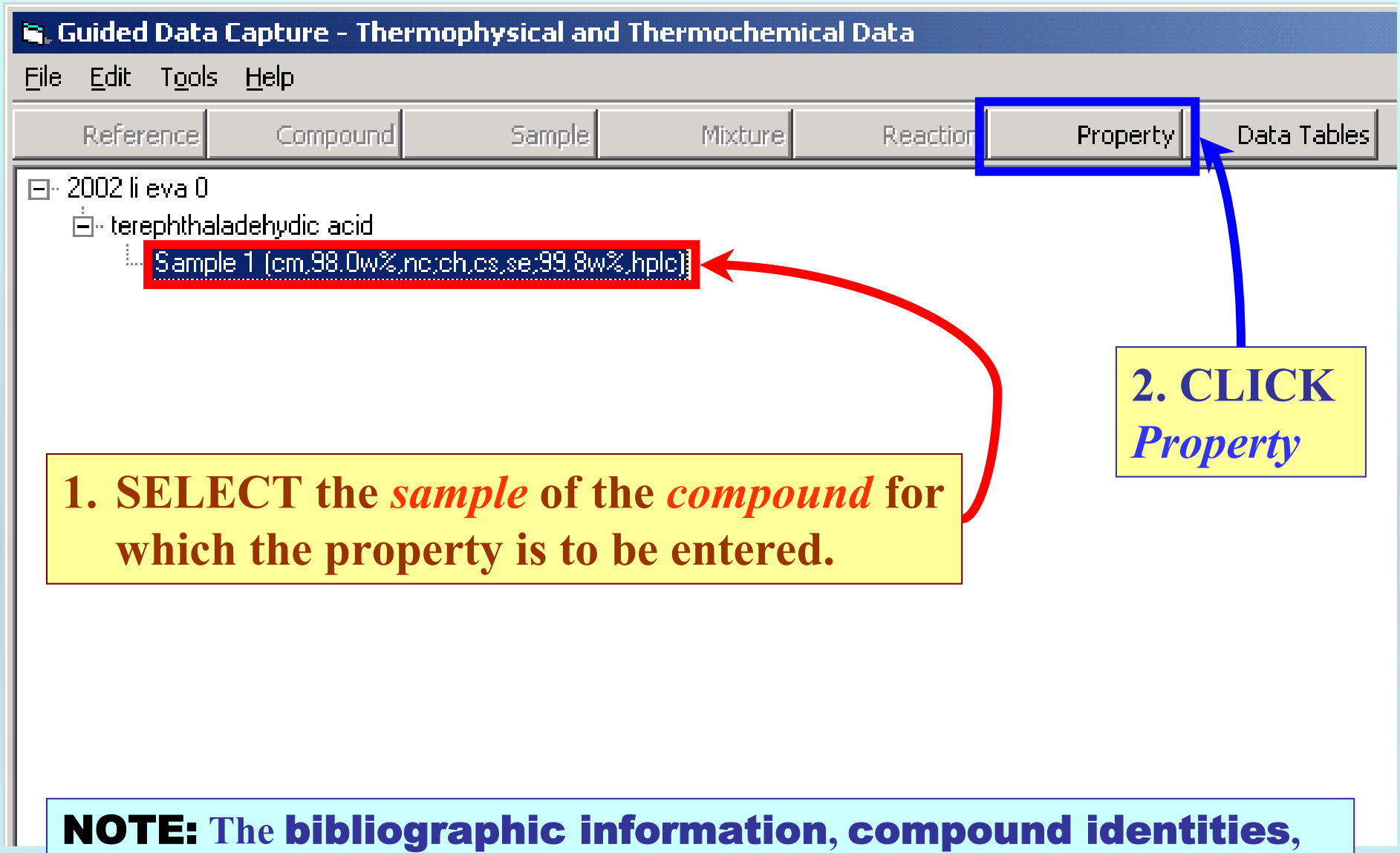
Melting Point

Melting Point for **terephthaladehydic acid**

Shimadzu). The melting point of terephthalaldehydic acid measured with a NETZSCH STA449C differential scanning calorimeter was 522.8 K and compares with the literature value 520.2 K.[3]

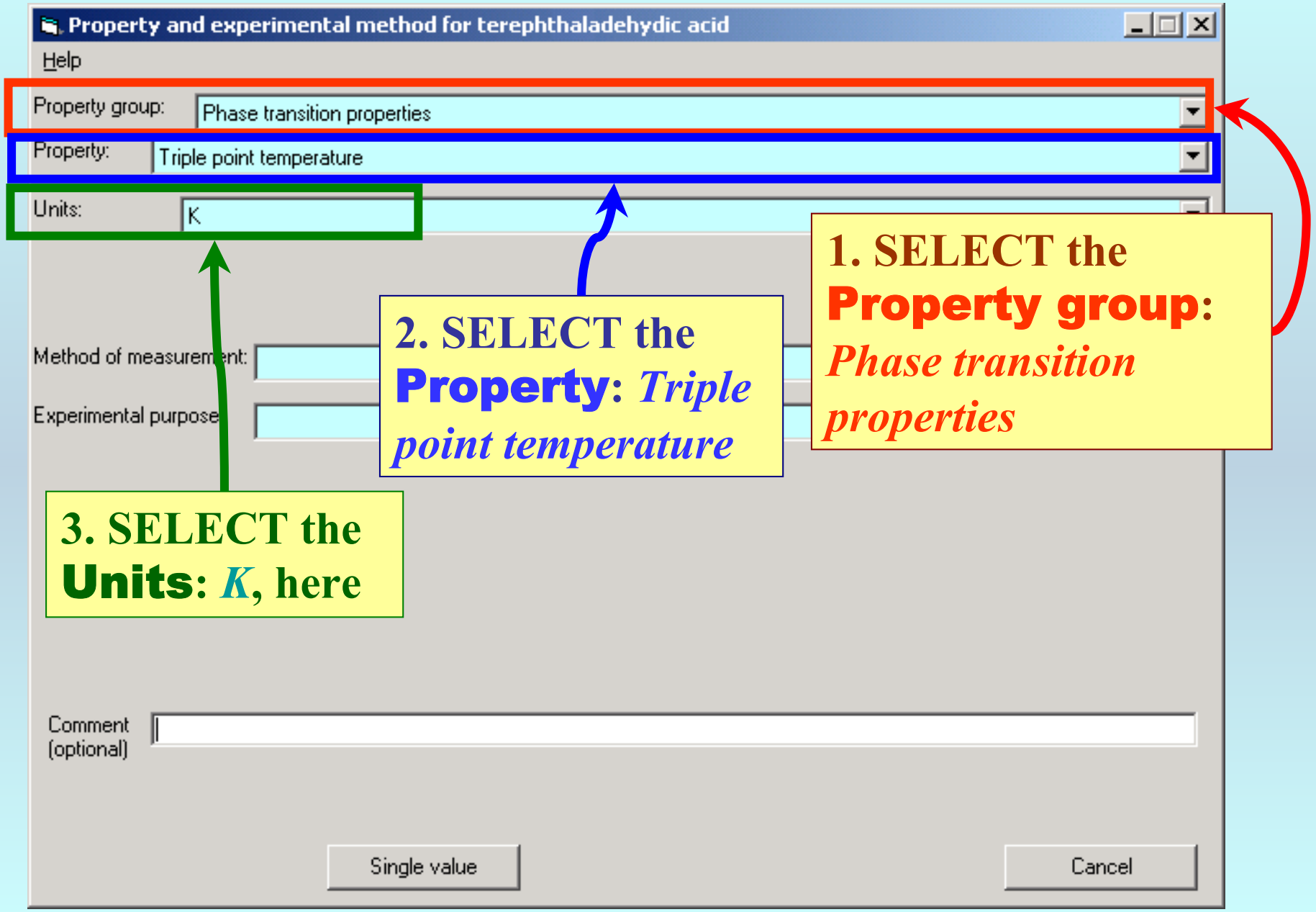
The data considered here.

Method: Differential Scanning Calorimetry

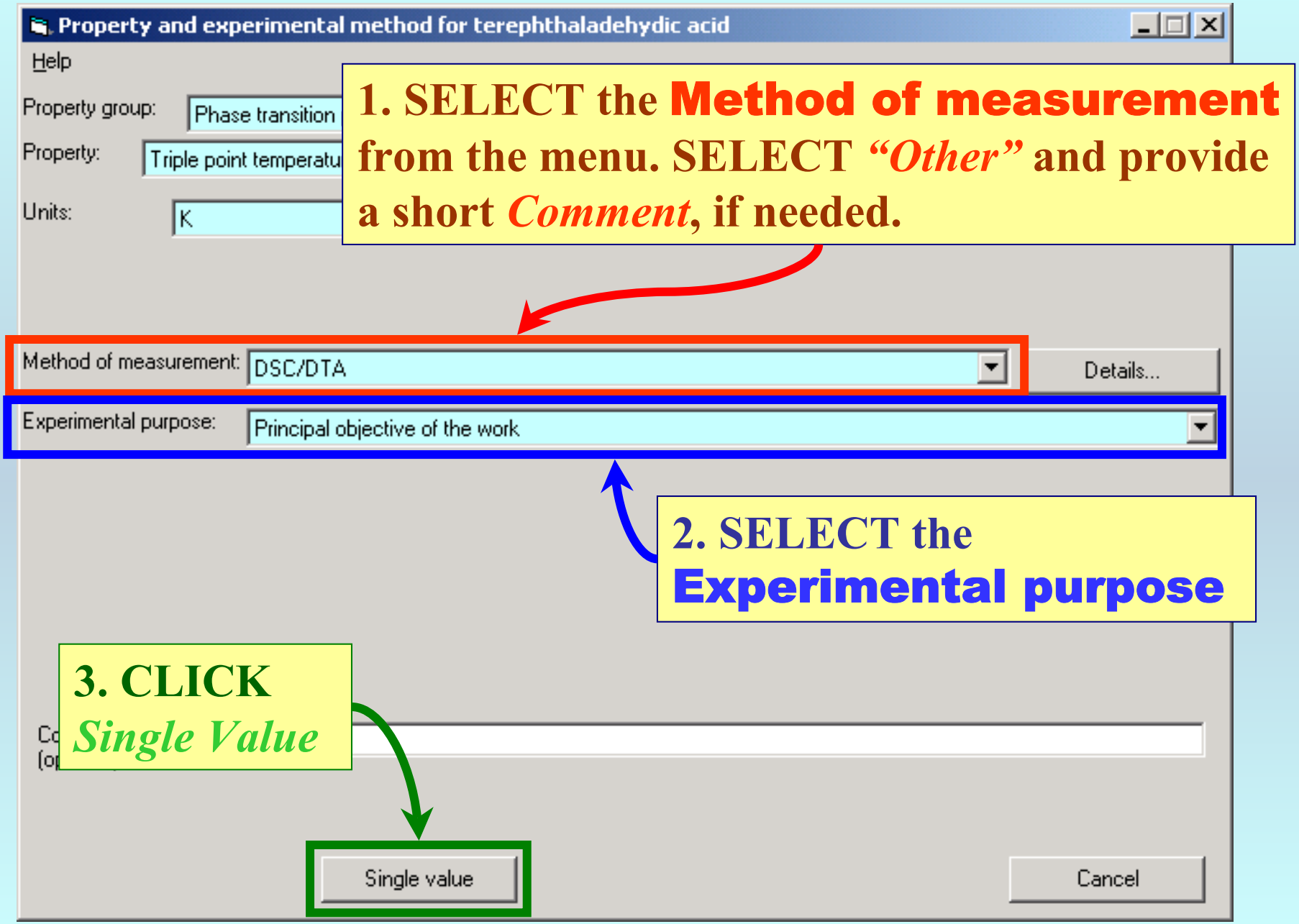


NOTE: The **bibliographic information**, **compound identities**, **sample descriptions**, and **mixture** were entered previously. (There are separate tutorials related to capture of this information.)

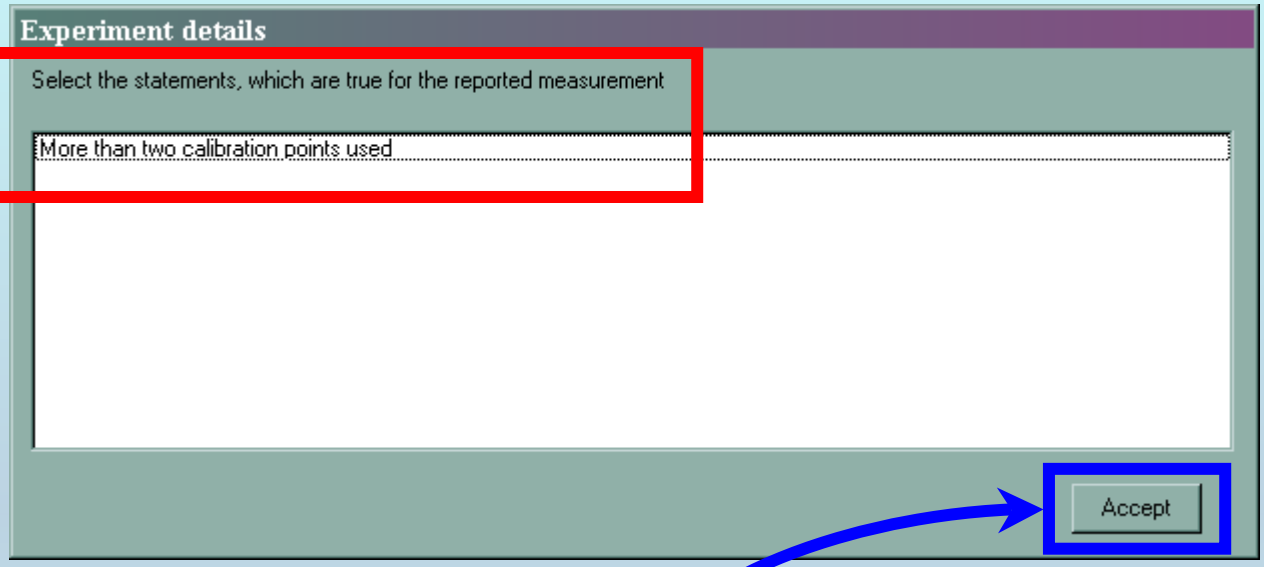
Property & Units selection



Method selection

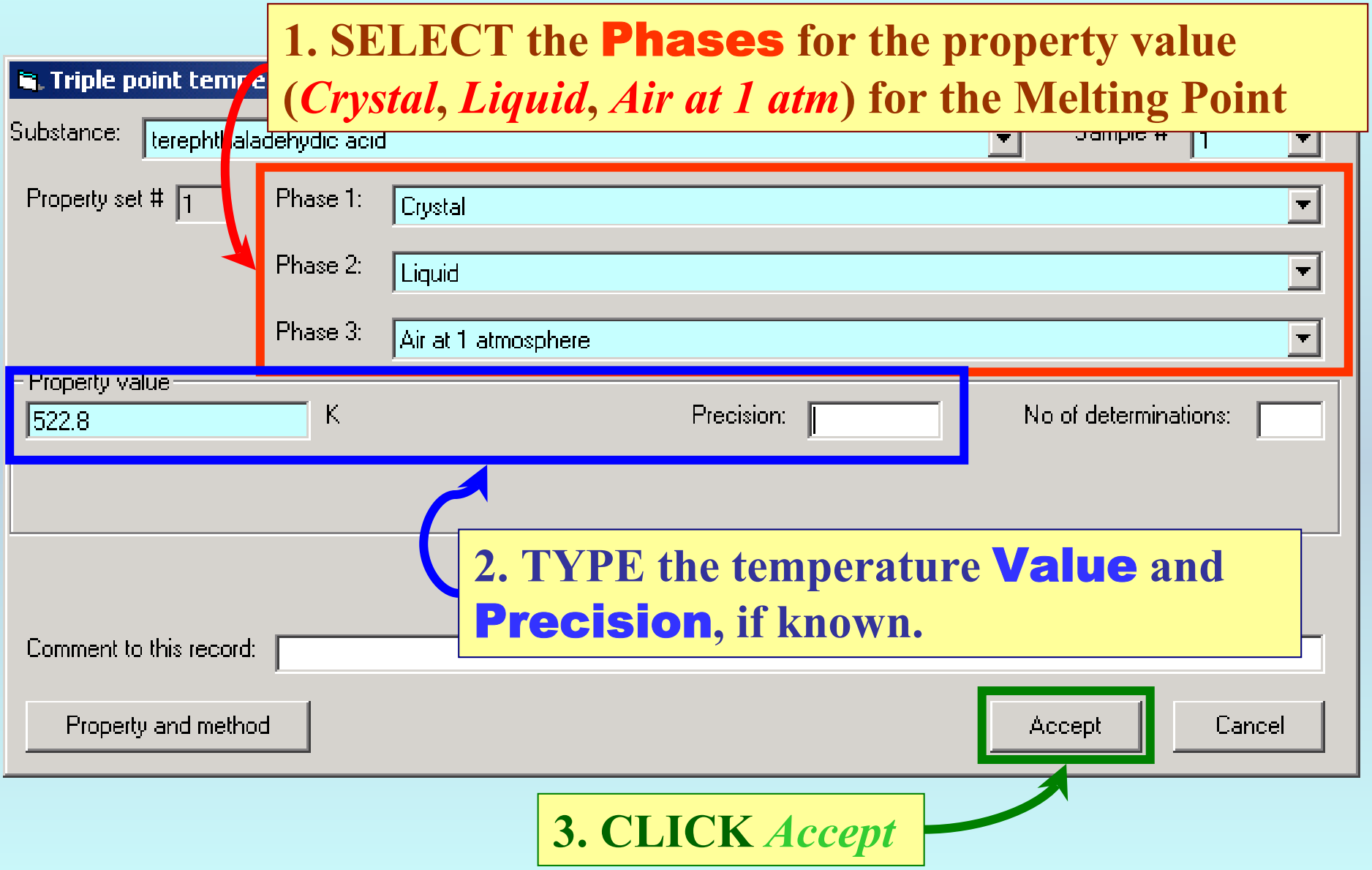


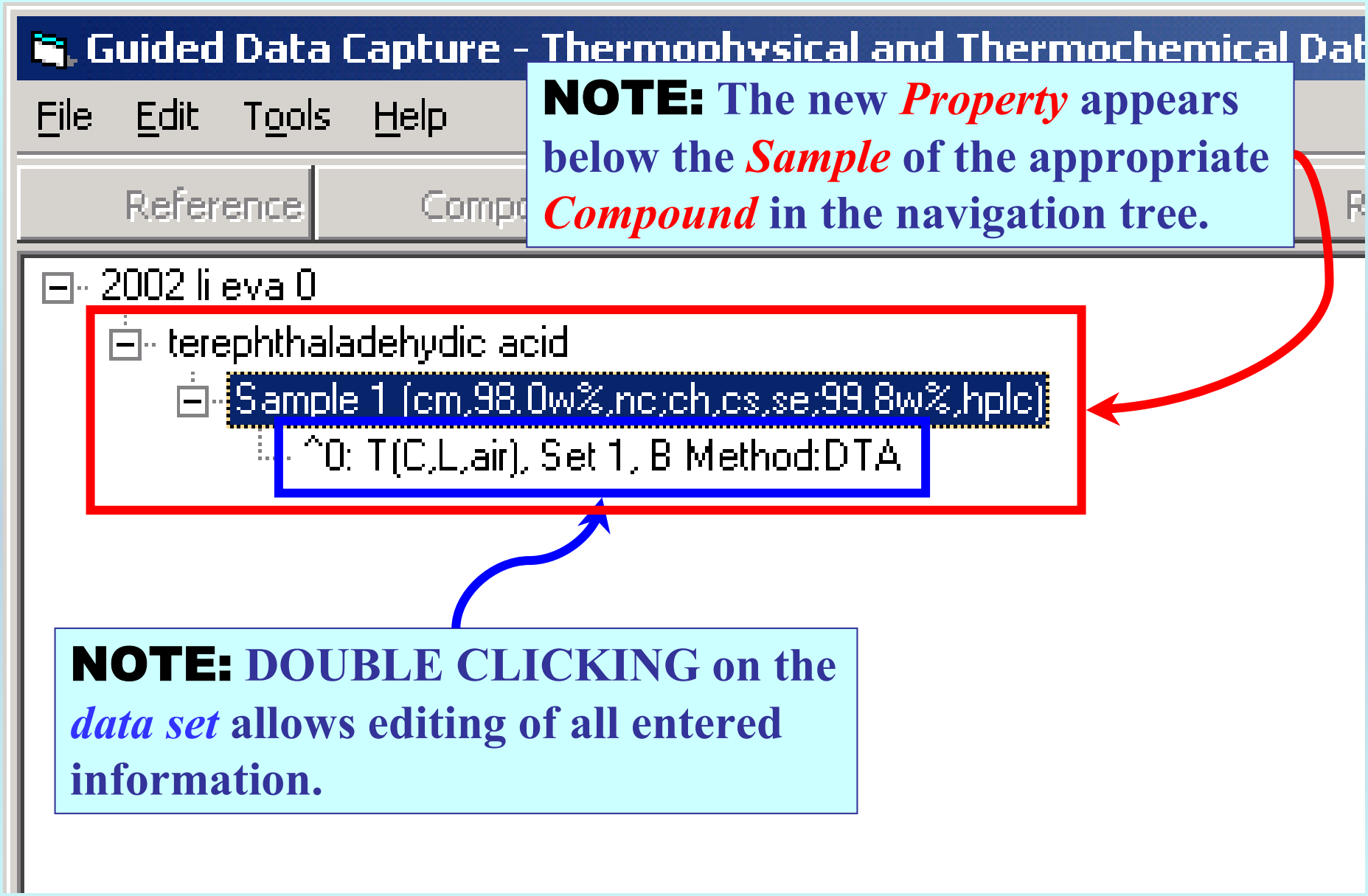
Method detail selection



Note: For some methods, additional details are requested. SELECT those statements that apply, and CLICK *Accept*.

Specification of phases and value




Guided Data Capture - Thermophysical and Thermochemical Dat
File Edit Tools Help
Reference
NOTE: The new Property appears below the Sample of the appropriate Compound in the navigation tree.
2002 li eva 0
terephthaladehydic acid
Sample 1 [cm,98.0w%,nc;ch,cs,se;99.8w%,hplc]
^0: T(C,L,air), Set 1, B Method:DTA
NOTE: DOUBLE CLICKING on the data set allows editing of all entered information.

END

Continue with other compounds, samples, properties, reactions, etc...

***or* save your file and exit the program.**