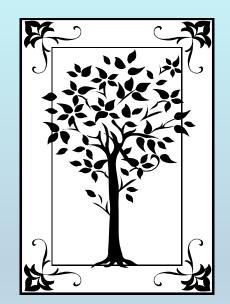
SAMPLE ENTRY: tutorial (III)

Guided Data Capture (GDC)

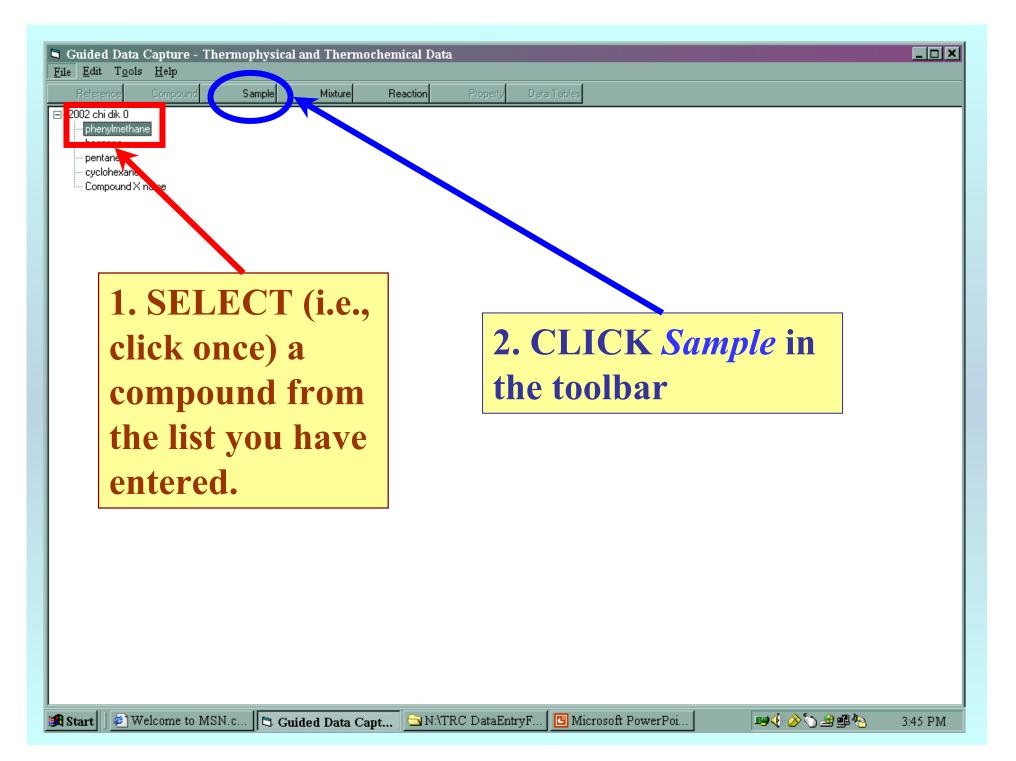


This tutorial demonstrates how to add chemical **SAMPLE** information (i.e., source, purity, etc.) to your file within the Guided Data Capture (GDC) software.

NOTE:

The tutorials proceed sequentially to ease the descriptions; however, 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.



This form has 2 main sections:

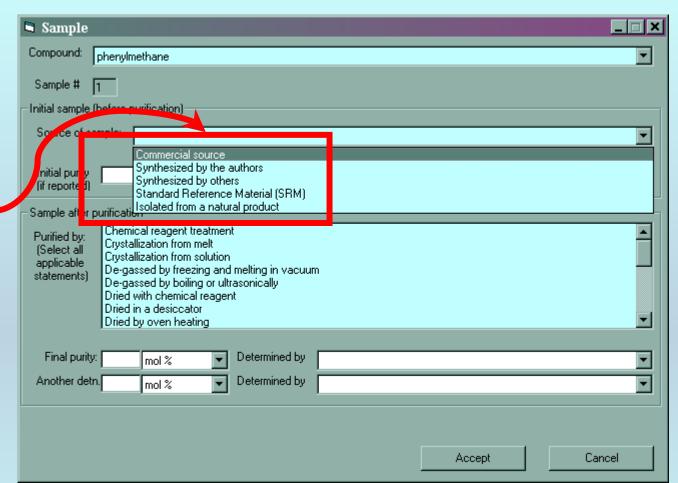
1) The sample *before* **purification**; i.e., the original source of the sample, its purity, and the method of purity determination

2) The sample *after* purification; i.e., the purification method(s), final purity, and method of purity determination (entry of two purities and methods is possible; e.g., fractional melting and glc)

🖻 Sample	
Compound: phenylmethane	
Sample # 1	
- Initial sample (before purification)	NOTE:
Source of sample:	
Initial purity mol %	Some fields
(if reported)	are optional.
- Sample after purification Purified by: Chemical reagent treatment	are optional.
(Select all Crystallization from melt Crystallization from solution	
statements) De-gassed by briling or ultrasonically	Detailed
Dried with chemical reagent Dried in a desiccator Dried by oven heating	instructions
Dried by oven heating	
Final purity: Mol % Determined by	follow
Another detn. Mol % Determined by	
Accept	
Accept Cancel	

Source of Sample:

SELECT the source of the original sample from the pulldown list.





Initial Purity (if known):

	Cample	_ 🗆 🗙
1. TYPE the % purity	Sample Concound: phenylmethane Sample # 1 Initial sample (before purification)	
2. SELECT its basis from	Source of sample: Commercial source Initial purity 98 mol % Initial purity 98 mol % Sample after purification mol % Determined by Sample after purification mol % mol % Purified by: Chemic, water wass % t (Select all applicable statements) Crystallization / on solution t De-gassed by freezing and melting in vacuum De-gass value by boiling or ultrasonically Drie with chemical reagent Uried in a desiccator Dried in a desiccator Dried in a desiccator	
the pulldown list provided.	Dried by oven heating Final purity: mol % Determined by Another detn. mol % Determined by Accept	T T



Method of initial purity determination (if known):

SELECT the method from the pulldown list provided.

Note: If *Other* is selected, a brief text description will be requested.

🖣 Sample					
Compound: pher	ylmethane				•
Sample # 1					
- Initial sample (befor	e purification)				
Source of sample	Commercial source				•
Initial purity 98 (if reported)	mol %	Determined by	Spectroscopy		×
(Select all Cry applicable De statements) De	ation emical reagent treatme stallization from melt stallization from solutic gassed by freezing ar gassed by freezing or u d with chemical reage	rasonically	Density Other	oubble and dew points	▼
Dri	ed in a desiccator ed by oven heating				
Final purity:	mol %	Determined by			•
Another detn.	mol %	Determined by			•
				Accept	Cancel



Method of purification:

SELECT from the list all methods that apply

Note 1: If the sample was not further purified, make no selection.

Note 2: *Other* is an option here, also.

- sample	_ 🗆 🗙
Compound: phenylmethane	•
Sample # 1	
Initial sample (before purification)	
Source of sample: Commercial source	•
Initial purity 98 mol % Determined by Ne Known (if reported)	•
- Sample after purification Purified by: (Select all applicable statements) Solvent extraction Fractional crystallization Fractional distillation Impurity adsorption Liquid chromatography Molecular sieve treatment Preparative gas chromatography Salting out of solution	
Final purity: mol % Determined by	_
Another detn. mol % Determined by	▼
Accept	Cancel

Continue...

Final purity and method of determination:

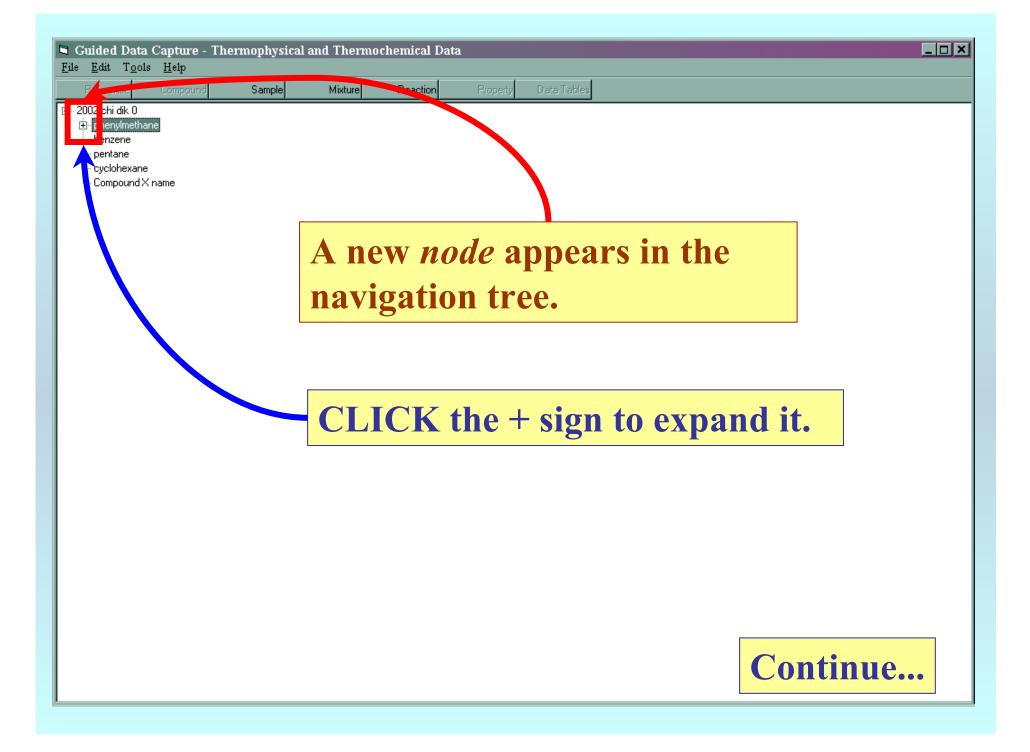
	🖻 Sample	_ 🗆 X
	Compound: phenylmethane	•
1. TYPE the	Sample # 1 Initial sample (before purification)	
final %	Source of sample: Commercial source	-
purity and	Initial purity 98 mol % Determined by Not known (if reported)	•
SELECT its	Sample after purification Solvent extraction Fractional crystallization	
basis from	applicable Impurity adsorption statements) Equid chromatography Multicular sieve treatment	
the pulldown	Preparative gas chromatography Saltimout of solution	_
list.	Final purity: 99.8 mol % Petermined by Another detn. mol % Determined by Gas chromatography	
	HPLC DSC Fraction melting in an adiabatic calorimeter Thermal analysis using temperature-time measurement Chemical analysis Acid-base titration CO2 yield in combustion products	

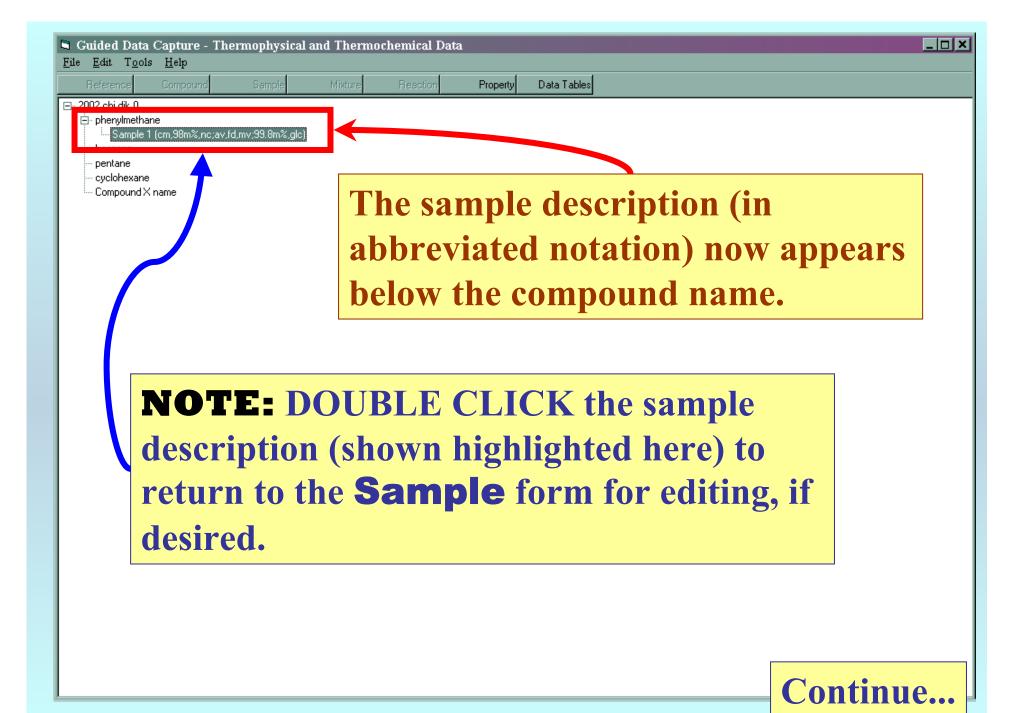
2. SELECT the method of purity determination from the pulldown list provided. (*Other* is an option.)

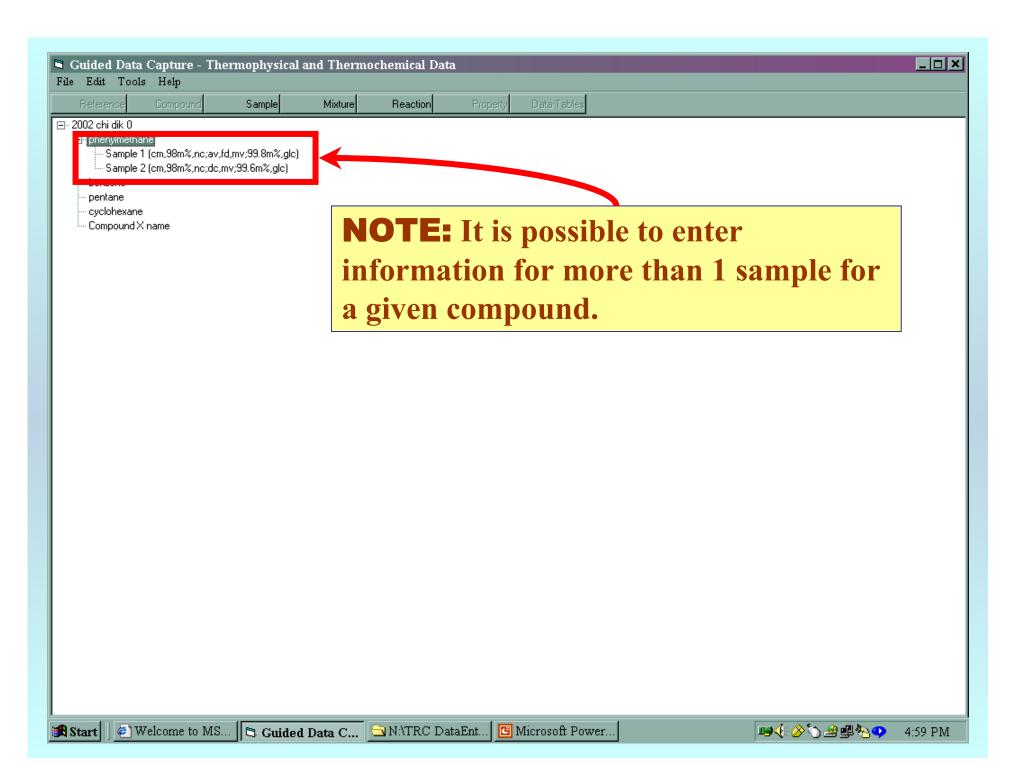


Second purity and method of determination:

	Sample	
	Compound: phenylmethane	•
1. Add a 2nd purity and determination method, if applicable.	Sample # 1 Initial sample (before purification) Source of sample: Commercial source Initial purity Initial purity 98 mol % Vertication Vetermined by Not known Sample after purification Solvent extraction Purified by: Solvent extraction Fractional crystallization Fractional distillation Impurity adsorption Liquid chromatography Molecular sieve treatment Molecular sieve treatment	
	Preparative gas chromatography Salting out of solution Final purity: 99.8 mol % Determined by Gas chromatography Another detn. mol % Determined by Accept Cancel	
2. CLICK Acce	pt when done.	
	Continue	•••









See MIXTURE component identification, PROPERTY SELECTION, or REACTION SELECTION tutorials for the next steps...

The next step will depend upon the type of experimental data you are entering...