

## Magnetic Susceptibility Data Set information:

- Data is recorded on Gaussmeter set on the 3 kG range.
- Laboratory temperature is 294 +/- 1 K.
- Data for this experiment is in a single Excel file.
- Separate sheets contain the data for the magnetic field calibration, the sample tube calibration measurement and the measurements for each sample.
- Equipment measuring uncertainties are listed below.

## Model 2100 Gaussmeter + probe accuracy:

### 1.5.1 Accuracy Specifications

DC Accuracy  $\pm$ (% of reading + % of range)

Range	Typical	Maximum
$\geq 30$ KG	0.050 + 0.020	0.100 + 0.050
$\geq 3$ KG	0.050 + 0.020	0.110 + 0.050
$\geq 300$ G	0.060 + 0.020	0.150 + 0.050
$\geq 30$ G	0.080 + 0.020	0.200 + 0.050

Table 1.5.1 DC Accuracy Specifications

## Ohaus weighing scale accuracy:

Repeatability +/- 0.0001 g

Linearity +/- 0.0002 g over full range (120 g)

## Current meter UNI-T UT803 accuracy:

For 10 A range +/-1.2 %