

Apparatus

Chemistry

Which piece of glassware for which job, and its precision.

Apparatus, use and typical uncertainty.

Apparatus	For	Precision
Volumetric flask	Making a standard solution	$\pm 0.1 \text{ cm}^3$
Pipette	Delivering a fixed volume	$\pm 0.06 \text{ cm}^3$
Burette	Variable, measured delivery	$\pm 0.05 \text{ cm}^3$ per reading
Measuring cylinder	Approximate volume	$\pm 0.5 \text{ cm}^3$
Beaker	Holding, mixing	Not calibrated
Conical flask	Titration, swirling	Not calibrated

Never measure a volume in a beaker for a quantitative experiment. The graduations are indicative only.