

## **What are Calibration Standards and when should they be used**

Calibration standards are known concentrations of components of interest used to confirm or determine concentrations in samples. Calibration Standards should be used anytime it is important to know the composition of samples and to determine if your process is performing as expected. DCG prepares a wide variety of standards from gas standards to LPG standards to liquid standards.

## **N.I.S.T. Traceability**

N.I.S.T. traceability validates the link between DCG calibration weights and the U.S. standard (N.I.S.T.) or the international standard (BIPM). NVLAP is the National Voluntary Laboratory Accreditation Program for precession test weights and mass standards to accuracy classes I, II and III. This accreditation assures DCG's calibration standard customers that our lab procedures and standards meet ISO Guide 25 and ANSI/NCSL Z540-1 requirements.

## **Statistical Process Control - Balances**

DCG's balances are evaluated twice per year by a NVLAP accredited third party. Linearity checks are verified weekly and calibrations are verified daily. Calibration of a balance is performed as necessary. If the calibration fails the balance is removed from service and evaluated by a NVLAP accredited third party. The balance must be calibrated before returning to service.

## **Statistical Process Control - Weights**

N.I.S.T. Class I weights are used to monitor and calibrate our balances. This is in accordance to ASTM E-617. DCG's weights are kept in protective cases and are handled with gloves or proper lifting devices. They are evaluated once per year by a NVLAP accredited metrological laboratory.

## **Physical Constants**

DCG uses the Physical Constants from GPA 2145 (most recent version) Table of Physical Constants for Hydrocarbons and Other Compounds of Interest to the Natural Gas Industry, TP-17 (most recent version) Table of Physical Properties of Hydrocarbons for Extended Analysis of Natural Gases, and ASTM DS 4B (most recent version) Physical Constants of Hydrocarbon and Non-Hydrocarbon Compounds.



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**Chromatographic Reference Materials**