DCG Partnership I, LTD

Methanol in Natural Gas Calibration Standards (StableMeOH™)

Another Innovative Product from the DCG Research and Development Group

The type of gas chromatograph, detector and columns used for natural gas analysis determines the elution time of methanol on laboratory gas chromatographs and on-line natural gas analyzers. In some instances, methanol co-elutes with other compounds; for example, hexanes plus or isobutane, artificially raising the compound's molar concentration. Since methanol has a relatively low heating value in comparison to the butanes and hexanes plus, and for the most part Btu's are determined by the molar concentrations of natural gas components, this co-elution creates an artificially higher Btu value. The amount of increase in Btu value contributed by methanol co-eluting with another analyte is dependent on the concentration of methanol and the response factor of methanol in comparison to the response factor of the co-eluting analyte.

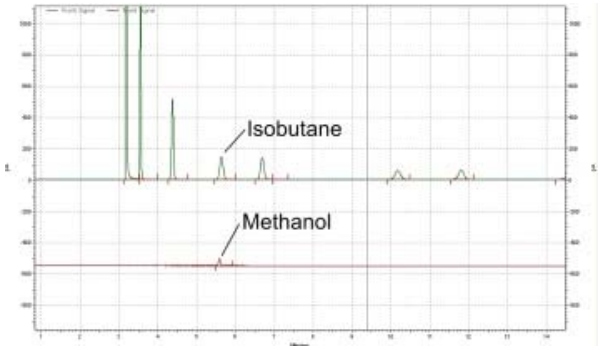

Figure A. Methanol co-eluting with isobutane

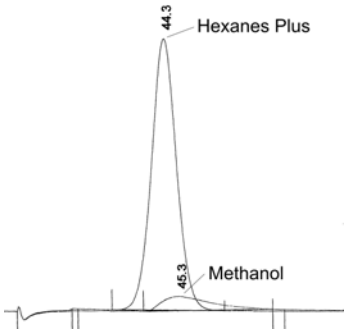

Figure B. Methanol co-eluting with hexanes plus fraction

In response to our customers' requests, DCG is proud to announce the successful creation of stable and repeatable methanol calibration standards in natural gas or methane. This has been accomplished through the use of DCG's proprietary StableMeOH™ blending process, StableMeOH™ analytical process and StableMeOH™ cylinders. Those familiar with the properties of methanol can readily understand the significance of this new product and the research and development talent needed to create a stable and repeatable methanol in natural gas or methane calibration standard. These standards are NIST Traceable by weight and analytically verified.

In addition, DCG's proprietary StableMeOH™ cylinders can be purchased from DCG and used for sampling purposes. DCG can also perform methanol in natural gas sample analyses using our StableMeOH™ analytical process.

For more information regarding this unique, one of a kind product, please contact customer service at 281-648-1894 ext. 1 or customerservice@dcgpartnership.com.

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Chromatographic Reference Materials