

Standards for Low-Level Sulfur Analysis

Sulfur Compounds by Selective Detection

Product #: VHG-MSX22-2

Matrix: Base Fuel*

Lot #: 710477986

*40% LV Isooctane/40% LV Hexane/20% LV Toluene

Sulfur Species	Concentration (µg/g)
2-Methyl-1-Propanethiol	50.0
2-Methyl Thiophene	51.0
3-Methyl Thiophene	50.6
1,2-Ethanedithiol	51.0
1-Pentanethiol	50.5
2-Ethyl Thiophene	50.1
Propyl Sulfide	50.7
1,5-Pentanedithiol	50.4
1-Nonanethiol	50.1
1-Decanethiol	50.2
1-Propanethiol	52.1
t-Butyl Sulfide	50.4
1-Heptanethiol	50.4
1,4-Butanedithiol	50.2
Methyl Ethyl Sulfide	50.4
Propyl Disulfide	50.4
1-Octanethiol	50.9
t-Butyl Disulfide	50.2
Benzo thiophene	64.3
1-Hexanethiol	51.8
Carbon Disulfide	51.5
Methyl Sulfide	50.3

This calibration standard is intended for use in the determination of sulfur compounds in light petroleum liquids by gas chromatography and sulfur selective detection, in accordance with ASTM Method D5623.

Certification: This standard was prepared to a nominal concentration of 50.0 µg/g (per component) utilizing gravimetric methods. The certified concentrations are based upon the actual assayed concentration of the raw material and all gravimetric procedures used in the preparation of this certified standard. The uncertainty associated with each certified concentration is +/- 2% relative, which is the sum of the estimated errors due to the assay and purity of the raw material, and the gravimetric preparation of the solution. This standard is NIST traceable by weight.

Tools: The balance used to weigh materials used in the preparation of this standard is calibrated regularly using mass standards, which are traceable to NIST.

Recommendations: VHG guarantees the accuracy of this solution for **12 Months** from the certification date shown below, provided it is stored under normal laboratory conditions in the original container. Do not freeze, heat, or expose to direct sunlight. Minimize exposure to moisture or high humidity. To achieve the highest accuracy the analyst should: (1) use only pre-cleaned containers and transfer-ware, (2) never pour used product back into the original container.

VHG Labs, Inc.



Q.A. Manager

See Exp. Date On Container
Certification Date

VHG Labs, Inc. waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.