

U.S. EPA Method 325

Ensure Fenceline Monitoring Compliance with SilcoTek® Coatings

Rule 325 Compliance Guide



In an effort to improve air quality near the fenceline of refineries, the EPA has implemented Method 325 to comply with US Federal regulations. Accurate analysis of airborne VOCs is now a nationwide requirement.

i EPA Method 325 requires low-level monitoring of benzene via passive sorbent tubes over 2-week intervals. Other VOCs are also targeted in the rule.

Without inert-coated sampling tubes and analytical instrumentation, refiners cannot achieve accurate results; more importantly, they put neighboring communities at risk while potentially facing fines.

SilcoTek's SilcoNert® coating is recognized industry-wide as the leading inert surface that enables refiners to sample their processes reliably with high accuracy and reproducibility. If left uncoated, even low surface area parts will adsorb compounds of interest and lead to invalid results, causing expensive retesting.

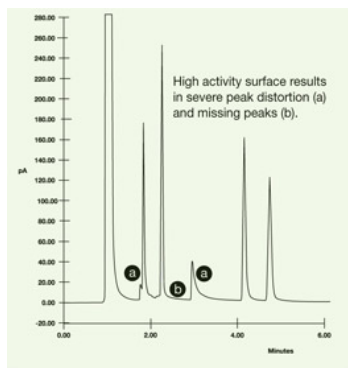


Figure 1: Uncoated surfaces within the GC flow path adsorb benzene, toluene, xylenes and other target analytes, leading to severe peak distortion and missing peaks.

Benzene, organosulfur compounds, and other hazardous air pollutants (HAPs) that can be measured with Method 325 protocol are known to be highly reactive with bare, untreated stainless steel. SilcoNert provides a uniform barrier between substrate and sample while preventing analytes of interest from adsorbing onto the surface, ensuring they reach the analyzer and can be accurately assessed at low levels (ppb or lower).

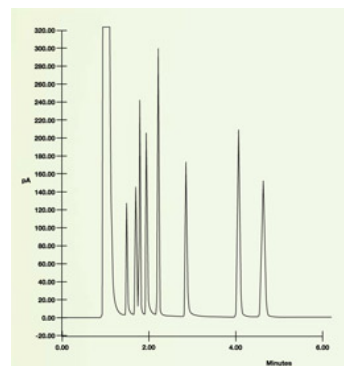


Figure 2: SilcoNert-coated GC flow paths produce sharp peaks with high resolution, giving refineries superior analytical accuracy and full compliance with EPA regulations.

SilcoNert-coated sampling tubes and analytical instrumentation allow refineries to obtain accurate benzene and VOC readings the first time, every time without delays, sample errors, or false results. Now charged with meeting stringent air monitoring regulations from the EPA, refineries can comply with the law and save money while keeping local communities safe.

How to Buy

Ask your manufacturer to add SilcoTek's SilcoNert® coating to your tubes and other stainless steel sampling equipment.

For a full listing of partners who stock coated products, visit www.SilcoTek.com/buy-coated-products.

Or, visit www.SilcoTek.com to send your parts in for coating.

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Coatings that Expand Material Limits

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