

Analytical and Product Chemistry

Smithers Viscient provides a wide range of analytical and product chemistry support services for environmental compliance in the pharmaceutical, agricultural, industrial and specialty chemical, and personal care industries. Our staff includes experienced scientists and technicians offering a broad range of skills and areas of expertise. Our scientists work closely with clients to develop procedures and protocols that produce effective and conclusive results.

Analytical Chemistry Capabilities

Smithers Viscient offers a wide range of analytical services using sophisticated analytical instrumentation. We have the expertise, personnel, and equipment to provide clients with assistance in analytical method development in support of environmental toxicology studies, biotechnology, manufacturing support, compliant sample analysis, polymer analysis, and surfactant analysis.

Our analytical capabilities include:

- Assay test validation and qualification services
- Method development
- Method validation
- Customized analytical testing
- Metabolite characterization and identification
- Physical/chemical properties testing
- Stability testing

Equipment

- High Performance Liquid Chromatography
- Gas Chromatography
- Mass Spectrometry (LC/MS and LC/MS/MS, GC/MS)
- Ion Chromatography



Smithers Viscient performs product composition investigation, identification and quantification of the contents in a technical grade product subject to registration. Our capabilities include screening of ingredients to 0.01% and lower. Smithers Viscient has considerable experience in trace level analysis for the detection and identification of toxicologically significant impurities for preliminary 5-batch analysis, as well as experience in structure elucidation.

Product chemistry capabilities:

- Boiling Point
- Certificate of Analysis
- Color (Munsell System)
- Corrosion
- Density
- Dissociation Constant
- Explodability
- Flammability (solids)
- Flash Point (liquids)
- Melting/Freezing Point
- Miscibility
- Odor
- Oxidation/Reduction
- Particle Size (sieving)
- Partition Coefficient (n-octanol/water)
- pH
- Physical State
- Preliminary Analysis (5-batch analysis)
- Solvent Solubility
- Storage Stability
- Surface tension
- UV/Visible Absorption
- Vapor Pressure
- Viscosity
- Water Solubility



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