



ICP ESCA TGA
GC MS NMR XRF
GPC DSC
FTIR SEM TEM

Service
Solutions

DOW CORNING

Analytical Solutions

Do You Need **Mass Spectrometry Services** to Help Move Your Research Forward?

Dow Corning Analytical Solutions offers a range of mass spectrometry (MS) capability to help characterize the composition of your materials and solve your testing challenges.

Our experts have practical experience analyzing a wide variety of materials. We can help you with product reformulation, trace level contamination, product failure analysis and troubleshooting chemical problems related to product development, manufacturing and application performance.

In addition, we offer interpretation, GC-MS and LC-MS-MS method development, and data acquisition mass spectrometry services.

Mass Spectrometry Expertise:

- High-resolution and accurate mass measurement using FTMS and TOF-MS
- Quantitation and impurity identification using GC-MS and LC-MS
- Structural characterization using MS-MS, LC-MS-MS, exact mass FTMS and TOF-MS
- Complex organic and polymer analyses including composition and molecular weight determination by APCI, ESI and MALDI TOF-MS
- Odor and trace level analysis of organics using SPME GC-MS
- Thermal decomposition and high temperature cure studies using Py-GC-MS or TGA-GC-MS
- Problem solving – adhesion and product failure analyses, product reformulation, extractable and contamination identification, additive analyses, solution-phase kinetic studies, etc.

Additional Capabilities:

In addition to Mass Spectrometry, we offer the following capabilities to meet your analysis needs:

- Molecular Spectroscopy (Raman, IR, NMR)
- Chromatography (GPC, IC, GC)
- Thermal Analysis (DSC, TGA, TMA, DMA)
- Microscopy (optical, AFM, SEM, TEM)
- Surface (XPS, contact angle, interferometry)
- Elemental (WDXRF, ICP-MS, XRD)



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Mass Spectrometry Capabilities:

We have a variety of ionization sources to handle most sample matrices and a range of instrument capability to analyze masses of volatile solvents to high molecular weight polymers.

- Bruker Biflex MALDI-TOF MS (linear and reflectron TOF)
- Bruker Apex II 4.7-T FTMS (EI, CI, ESI and APCI)
- Applied Biosystems 3Q and Q-trap (ESI and APCI) coupled to an Agilent 1100 HPLC system
- Shimadzu Quadrupole GC-MS (EI and CI) with TGA, pyrolysis and headspace sampling
- Agilent Quadrupole GC-MS (EI and CI) with headspace, liquid, thermal desorption and SPME
- Waters GC-TOF-MS (EI, CI, FI and direct probe)

Quality Accreditation:

- ISO 9001 (BSI FM 10734)

How to contact us:

For further information, to request a quote or discuss how we can help you:

- Visit our website:
www.dowcorning.com/analytical
- Email us:
analytical.solutions@dowcorning.com
- Call us:
Technical Contacts
United States 1-877-dcc-test (1-877-322-8378)
Belgium 32-64888239
United Kingdom 44-1446-723430
Japan 81-436-22-5966

Product Customer Service 1-800-248-2481



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