1 Abbreviations

In modern chemical analysis, techniques like NMR, FTIR, and GC-MS are essential for identifying compounds, while methods such as HPLC and ICP-OES provide high-precision quantification of analytes across a wide range of matrices. Researchers often rely on computational tools like DFT and Molecular Dynamics to model reaction pathways and molecular behavior, supported by data from X-ray Diffraction for crystalline structure determination.

List of Acronyms

DFT Density Functional Theory. 1

FTIR Fourier Transform Infrared Spectroscopy. 1

GC-MS Gas Chromatography–Mass Spectrometry. 1

HPLC High-Performance Liquid Chromatography. 1

ICP-OES Inductively Coupled Plasma–Optical Emission Spectroscopy. 1

NMR Nuclear Magnetic Resonance. 1