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information about structure.

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Mass spectrometry (also called mass

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spec) provides valuable information about the structure of molecular compounds. Organic chemists can use a mass spectrometer to ionize (or 'smash') a molecular compound in gaseous form, sort the fragments, and then identify the molecule fragments based on their molecular weights.

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Figure 1 below illustrates these concepts. Electrospray ionization mass spectrometry research was pioneered by the analytical chemistry professor John Bennet Fenn, who shared the Nobel Prize in Chemistry with Koichi Tanaka in 2002 for his work on the subject. Figure 1. Mass Spectrum Example. Calculations for m/z in spectrum

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The molecular mass (abbreviated M_r) of a substance, formerly also called molecular weight and abbreviated as MW, is the mass of one molecule of that

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substance, relative to the unified atomic mass unit u (equal to $1/12$ the mass of one atom of ^{12}C). Due to this relativity, the molecular mass of a substance is commonly referred to as the relative molecular mass, and abbreviated to M_r .

**Mass (mass spectrometry) -
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