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New IONICON PTR-TOFMS series for high-resolution VOC quantification in the single-digit pptv-range

IONICON, the worlds' leading PTR-MS company presents the new PTR-TOFMS series, taking online mass spectrometry for trace VOC analysis another step ahead.

The new PTR-TOFMS series offers to the scientific market two very attractive variants: the IONICON PTR-TOF 8000 and the IONICON PTR-TOF 2000.

Both instruments combine the legendary features of Proton Transfer Reaction (PTR) technology that is being ultra-sensitive to VOCs (single-digit pptv-range), with the speed and resolution of time-of-flight mass spectrometry.

The flagship of this series is the IONICON PTR-TOF 8000 providing an incredible resolution of up to 8000 m/ Δ m thus resolving isobaric compounds, and a very low detection limit of < 10 pptv.

The IONICON PTR-TOF 2000 focuses on sensitivity and speed reaching a limit of detection below 5 pptv and very high ion count rates but nevertheless features a mass resolution of up to 2000 m/ Δ m.

The PTR-TOFMS series as well as the classic PTR-QMS Series (based on quadrupole MS) can be equipped with Switchable Reagent Ions (PTR+SRI-MS) where instead of the single precursor ion (H_3O^+) used so far in PTR-MS systems also NO^+ and O_2^+ can be used to chemically ionize trace constituents in gas samples. The benefits are extraordinary as not only isomeric VOC compounds can be separated and instantaneously quantified but also more substances can now be detected.

IONICON is the world's leading producer of on-line VOC detectors with market-leading, on-line and real-time, single-digit, pptv-level sensitivities using the unique proton transfer reaction – mass spectrometry technology. For more than a decade, IONICON is serving leading scientists in universities and multinational companies with VOC detection and quantification instruments in many different areas including environmental research, pollution monitoring, atmospheric chemistry, food & flavour science, illicit substances.



The IONICON product range comprises the PTR-QMS Series (IONICON High-Sensitivity PTR-MS with its market-leading detection limit of < 1 pptv; the IONICON Compact PTR-MS, a very robust and small VOC monitoring system with a very advantageous price) and the PTR-TOFMS Series (IONICON PTR-TOF 8000 providing a mass resolution of up to 8000 m/ Δ m and the IONICON PTR-TOF 2000 with its detection limit < 5 pptv).

Product information:

www.PTRMS.com/products/ptrtofms

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