

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

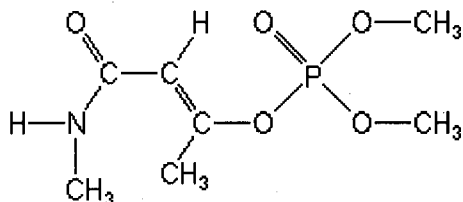
Analyte: Monocrotophos

CAS No.: 6923-22-4

Formula: C₇H₁₄NO₅P

Molecular mass (lowest isotopes): 223,06 amu

Structure:



Ionisation: ESI +

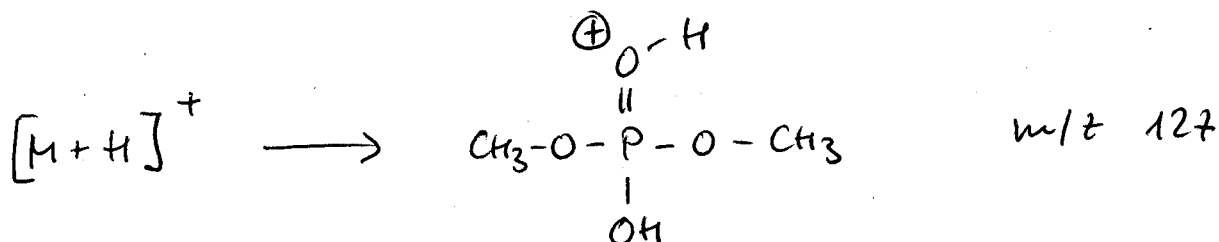
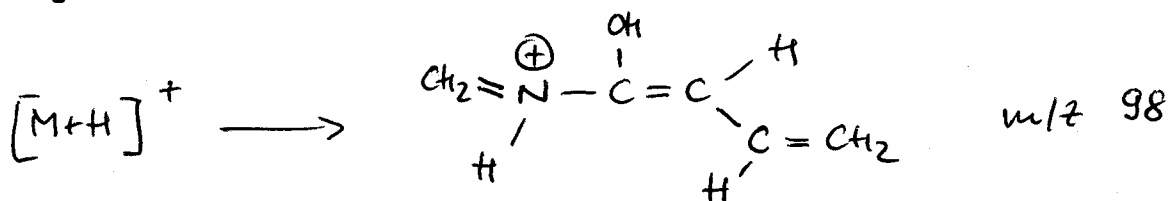
Quasimolecular ion: 224,1 amu = [M+H]⁺

Analyte sensitive parameter set (API 2000)

| Transition | 224,1 → 127,0 | 224,1 → 98,0 |
|---|---------------|--------------|
| Declustering potential (DP) ^{*)} | 46 V | 46 V |
| Focusing potential (FP) | 360 V | 350 V |
| Entrance potential (EP) | 11,5 V | 10,5 V |
| Collision cell entrance potential (CEP) | 14 V | 14 V |
| Collision energy (CE) | 21 V | 17 V |
| Collision cell exit potential (CXP) | 6 V | 4 V |

^{*)} For API 3000 and 4000 enhance DP by 20V

Fragmentation



Monocrotophos Q1 [M+H]⁺ = 224
100 ng/ml MeOH/H₂O 1:1 5mM NH₄HCOO 200µl/min
Clethod. iminsulfon, -sulfoxid, MCPA-Me, Metalaxyl, Dithianon

