

Application Report 268

Analysis of Organophosphorus Insecticides Using Ascentis™ C18

Suitable separation of organophosphorus insecticides, prophos, tetrachlorvinphos and pyraclofos using Ascentis C18 is demonstrated.

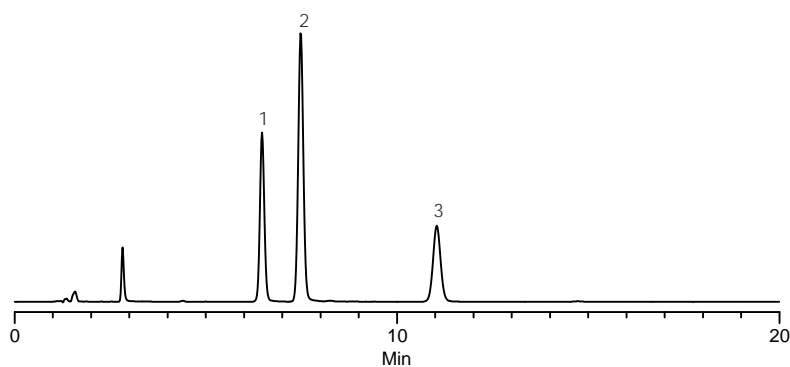
Key Words

Ascentis C18, organophosphorus, insecticides, prophos PS672 13194-48-4, tetrachlorvinphos PS611 22248-79-9, pyraclofos PS2046 77458-01-06, 581324-U

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Acquisition System: Waters

Notebook Reference: 1550



G003010

Conditions

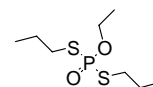
column: Ascentis C18, 15 cm x 4.6 mm I.D., 5 µm particles (581324-U)
mobile phase: 59:41, 5 mM ammonium acetate (pH 6.85, unadjusted):acetonitrile
flow rate: 1.0 mL/min.
temp.: 35 °C
det.: UV at 230 nm
injection: 10 µL
sample: as indicated in 25 mM ammonium acetate (pH 6.85)

Peak IDs

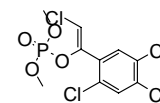
1. Prophos (450 µg/mL)
2. Tetrachlorvinphos (30 µg/mL)
3. Pyraclofos (120 µg/mL)

Structures

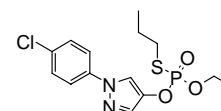
Prophos - G003007



Tetrachlorvinphos - G003009



Pyraclofos - G003008



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