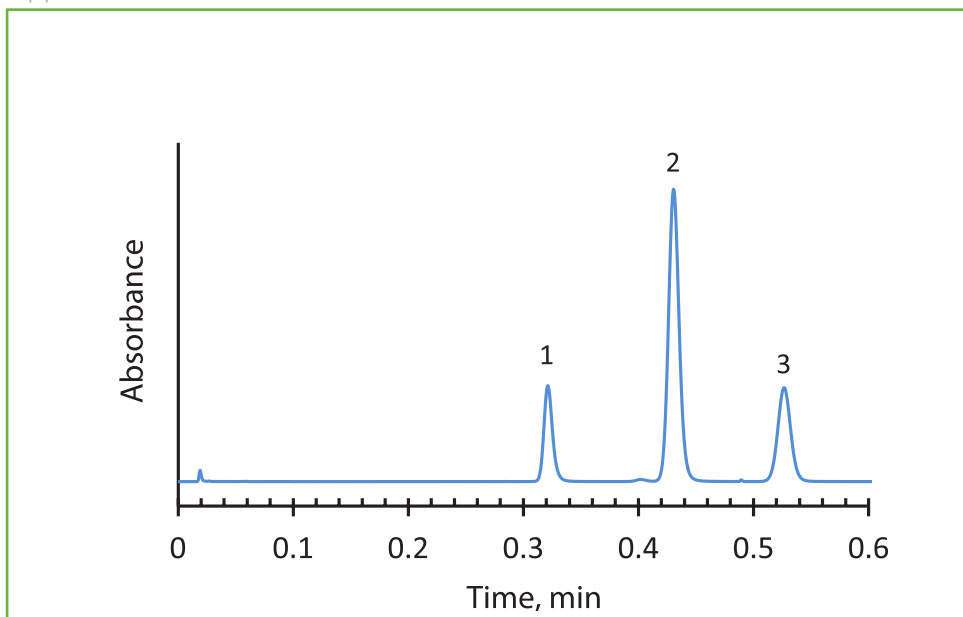




## Separation of Carbamate Pesticides on HALO® ES-CN Phase

Application Note 60-CB



### PEAK IDENTITIES:

1. Carbetamide
2. Propham
3. Chlorpropham

This separation illustrates a rapid HPLC determination of three carbamate pesticides on the HALO® ES-CN phase in just over half of a minute. The unique Fused-Core® technology allows the use of high flow rates at moderate pressures while retaining high efficiency.

### TEST CONDITIONS:

**Column:** HALO 90 Å ES-CN, 2.7 µm,  
4.6 x 50 mm

**Part Number:** 92814-404

**Mobile Phase:** 40/60 - A/B

A: Water

B: Acetonitrile

**Flow Rate:** 2.0 mL/min

**Pressure:** 165 bar

**Temperature:** 30 °C

**Detection:** UV 240 nm, VWD

**Injection Volume:** 0.2 µL

**Sample Solvent:** Acetonitrile

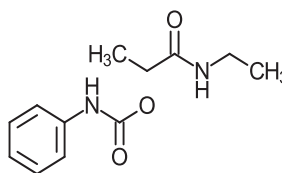
**Response Time:** 0.02 sec

**Flow Cell:** 2.5 µL semi-micro

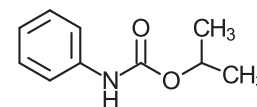
**LC System:** Shimadzu Prominence UFLC XR

**Extra Column Volume:** ~14 µL

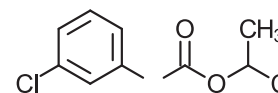
### STRUCTURES:



Carbetamide



Propham



Chlorpropham

