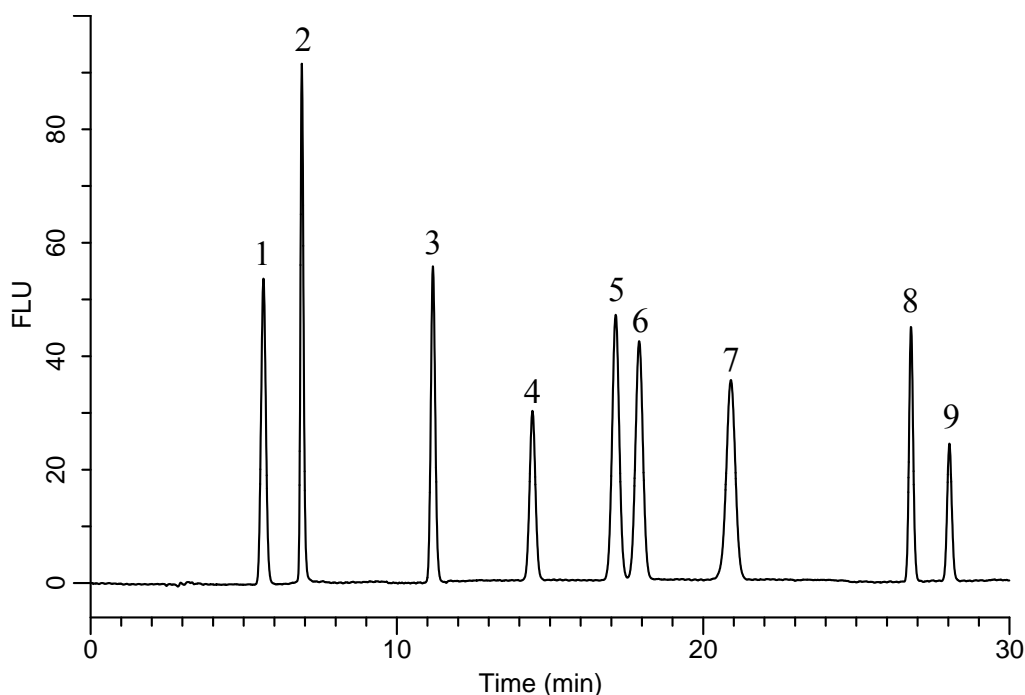


# InertSearch™ for LC

Inertsil® Applications

## Analysis of Carbamate insecticides – Inertsil ODS-4 (Directed by Post-Column Method with OPA)

Data No. LA918-0894



### Conditions

**System** : GL-7400 HPLC system  
**Column** : Inertsil ODS-4 (5µm, 250 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-03946  
**Eluent** : A) CH<sub>3</sub>OH  
B) H<sub>2</sub>O  
A/B = 35/65 – 2 min – 35/65 – 0.1 min – 53/47  
- 18.4 min – 53/47 – 0.1 min – 70/30 – 9.4 min  
- 70/30 – 0.1 min – 35/65 – 9.9 min – 35/65, v/v

**Flow rate** : 1.0 mL/min  
**Reaction Reagent** : OPA reagent\*

**Col. Temp.** : 40 °C  
**Detection** : FL Ex 339 nm Em 455 nm  
(GL-7453A FL Detector)

**Injection Vol.** : 10 µL  
**Sample** : Pesticides

\* Dissolve 0.2 g of o-Phthalaldehyde in 2.5 mL of methanol, and add 0.05 mol/L sodium tetraborate aqueous solution to make 250 mL. After sonicating this solution, add 0.5 mL of 2-Mercaptoethanol.

### Analyte:

1.	Oxamyl	1.0 mg/L
2.	Methomyl	1.0 mg/L
3.	Aldicarb	1.0 mg/L
4.	Bendiocarb	1.0 mg/L
5.	Carbaryl	1.0 mg/L
6.	Ethiofencarb	1.0 mg/L
7.	Isoprocarb	1.0 mg/L
8.	Fenobucarb	1.0 mg/L
9.	Methiocarb	1.0 mg/L