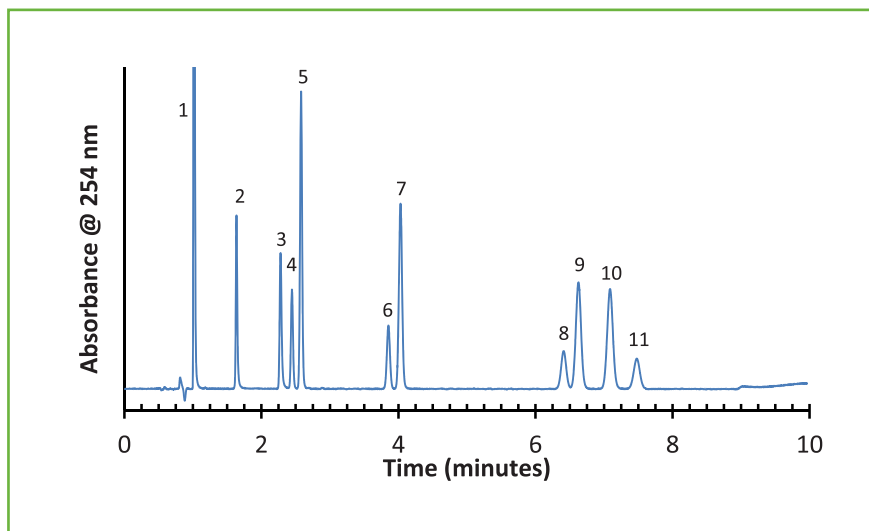




## Separation of Triazine Pesticides on HALO® AQ-C18, 2.7 μm

Application Note 163-PS



### PEAK IDENTITIES:

1. Acetone (solvent)
2. Atraton
3. Prometon
4. Simazine
5. Simetryn
6. Atrazine
7. Ametryn
8. Propazine
9. Prometryn
10. Terbutryn
11. Terbutylazine

Triazines are a class of common herbicides that reduce weeds and increase crop yields. The wide use of these chemicals has created concern about the levels in soil and water. They can be analyzed using a HALO® AQ-C18 column in a fast gradient mode.

### TEST CONDITIONS:

**Column:** HALO 90 Å AQ-C18, 2.7 μm,  
4.6 x 150 mm

**Part Number:** 92814-722

#### Mobile Phase:

- A: 0.02 M sodium phosphate buffer, pH 3.0  
B: Acetonitrile

Gradient:	Time (min)	% B
	0.0	40
	8.0	40
	10.0	75

**Flow Rate:** 1.6 mL/min

**Initial Pressure:** 310 bar

**Temperature:** 35 °C

**Detection:** UV 254 nm, VWD

**Injection Volume:** 2.0 μL

**Sample Solvent:** 25/75 acetone/acetonitrile

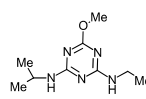
**Response Time:** 0.02 sec

**Data Rate:** 25 Hz

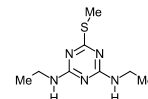
**Flow Cell:** 2.5 μL semi-micro

**LC System:** Shimadzu Prominence UFLC XR

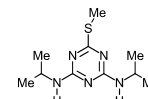
### STRUCTURES:



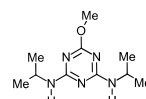
Atraton



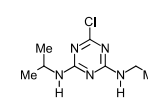
Simetryn



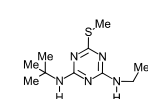
Prometryn



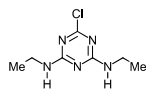
Prometon



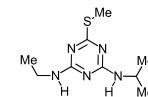
Atrazine



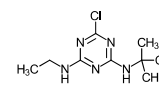
Terbutryn



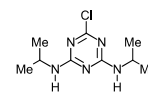
Simazine



Ametryn



Terbutylazine



Propazine

