

## Polyethyleneamines

**Column:** DB-5ms  
30 m x 0.25 mm I.D., 0.5 µm  
**J&W P/N:** 122-5536  
**Carrier:** Helium at 30 cm/sec, measured at 100°C  
**Oven:** 100°C for 1 min  
100-320°C at 20°/min  
**Injector:** Split 1:50, 250°C  
1 µL of 100 ng/µL standard in methanol  
**Detector:** FID, 300°C  
Nitrogen makeup gas at 30 mL/min

1. Ethylenediamine
2. Diethylenetriamine
3. Triethylenetetramine
- 3.\* Branched and piperazine analogs of peak #3
4. Tetraethylenepentamine
- 4.\* Branched and piperazine analogs of peak #4

