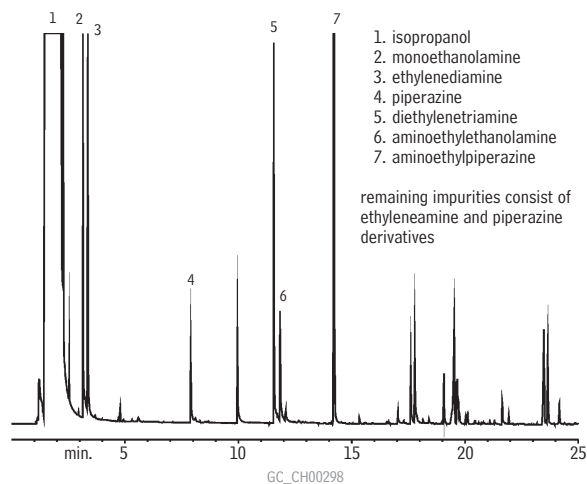


## Amines

## Ethyleneamines

## Rtx®-5 Amine

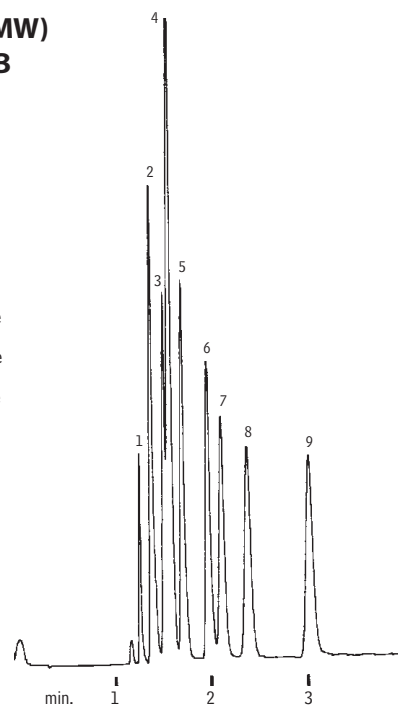


Column: Rtx®-5 Amine, 30m, 0.25mm ID, 0.50 $\mu$ m (cat.# 12338)  
 Sample: 3.0 $\mu$ L split injection of ethyleneamine industrial sample  
 On-column conc.: ~5-80ng  
 Oven temp.: 40°C (hold 4 min.) to 315°C  
 @ 10°C/min. (hold 5 min.)  
 Inj./det. temp.: 315°C  
 Carrier gas: hydrogen  
 Linear velocity: 43cm/sec. set @ 40°C  
 FID sensitivity: 6.4 x 10<sup>11</sup> AFS  
 Split ratio: 20:1

## Amines (low MW)

## Stabilwax®-DB

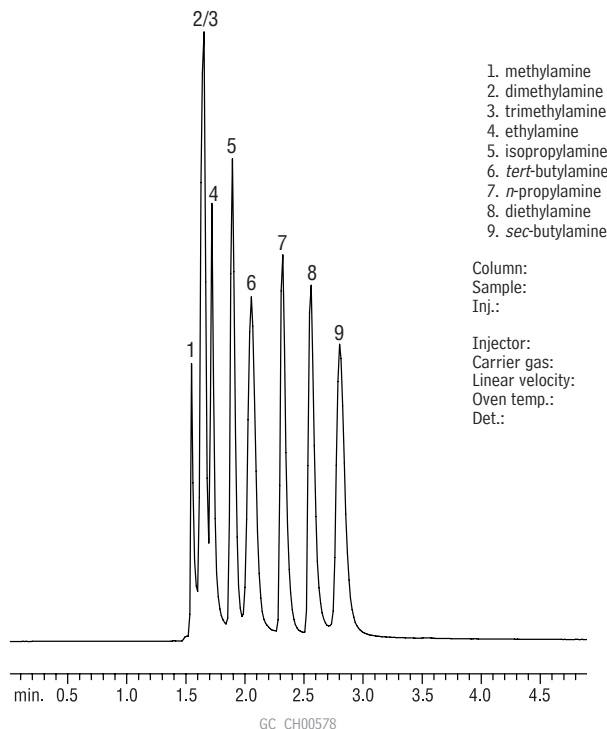
1. trimethylamine
2. dimethylamine
3. ethylamine
4. methylamine
5. isopropylamine
6. *n*-propylamine
7. *tert*-butylamine
8. diethylamine
9. *sec*-butylamine



Column: Stabilwax®-DB, 30m, 0.53mm ID, 1.0 $\mu$ m (cat.# 10855)  
 Sample: 1.0 $\mu$ L direct injection of amines in water  
 Oven temp.: 45°C  
 Inj./det. temp.: 250°C  
 Carrier gas: hydrogen  
 Linear velocity: 40cm/sec. (flow rate: 5cc/min.)  
 FID sensitivity: 1 x 10<sup>11</sup> AFS  
 Recommended inlet liner: Uniliner®

## Amines, Primary

## Rtx®-35 Amine



1. methylamine
2. dimethylamine
3. trimethylamine
4. ethylamine
5. isopropylamine
6. *tert*-butylamine
7. *n*-propylamine
8. diethylamine
9. *sec*-butylamine

Column: Rtx®-35 Amine, 30m, 0.53mm ID, 1.0 $\mu$ m (cat.# 11355)  
 Sample: primary amines, 50ppm on-column conc. in water  
 Inj.: 1.0 $\mu$ L, split (10:1), 4mm base-deactivated single gooseneck inlet liner (cat.# 20798-210.1)  
 Injector: 250°C  
 Carrier gas: helium, constant pressure  
 Linear velocity: 35.7cm/sec.  
 Oven temp.: 35°C (hold 5.0 min.)  
 Det.: FID @ 300°C