

EXPERTS IN GAS ANALYSIS

Two different method on one chromaFID

Chroma FID : analysis of epichlorhydrine in 180 secondes : Methode EPI**Injection of compounds used in this industry****Analysis conditions :****Cycle Time:** 3 MINUTES WITH MULTIPLEXER UP TO 16 STREAMS**Sampling :** Volume : Loop of 250µl**Carrier gas :** hydrogen**Oven :** **Columns :** 2x7.5 m ultimetall columns type MXT-624 ; isothermal **Temperature** 100°C**Multiplexer:** 6 (5 streams + 1 calib) : purge 30 s at 50 ml/min**1-chloro-2-3 epoxypropane (C₃OclH₅) Masse : 92,53 g/mole**

Peak number	Compounds	Retention time in s
0	Trichloropropane	23,8
1	Ortho-dichlorobenzene	39,6
2	m-xylene	86,9
3	Ethyl-benzene	94,6
4	Toluene	101,6
5	Epichlorhydrine	141,3
6	Methyl isobutyl cetone	149,4

Toxicity : 12 mg/m³
 Alarm 3mg/m³ (< 0,8 ppm at 20°C)

Chroma FID : analysis of benzene in three minutes : Methode BENZENE**Injection of compounds used in this industry****Analysis conditions , same as : epichlorhydrine analysis**

Peak number	Compounds	Retention time in s
3	CH ₂ Cl ₂	22.9
4	Xylenes	31.7
5	Cyclohexane	48.3
6	Benzene	56.0

Toxicity : 6.4 mg/m³
 Alarm 3.2mg/m³ (< 1 ppm at 20°C)

NOTE : This application airmoTWA has been working for 7 years in the Paris area