

Toluene C₇H₈



No. H-10-114-20



	Extended Range	Standard Range	Extended Range
Range (ppmv)	5 - 150	10 - 300	20 - 600
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 2	2	1.5
Correction Factor	0.5	1	2

Precision (Relative Standard Deviation)*: $\leq \pm 12\%$

Linearity with No. of Pump Strokes: $r^2 = 0.994$

Humidity: No effect 0 - 90% RH

Temperature Range: 0 - 40°C (32 - 104°F)

Temp (°C/°F)	0/32	10/50	25/77	40/104
Corr. Factor	1.2	1.0	1.0	1.1

Storage Life: 2 years in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: White → Brown

Reaction Principle: $C_8H_{10} + I_2O_5 + H_2SO_4 \rightarrow I_2 + \text{Oxidation Products}$

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
Benzene	95	110 green-brown
p-Xylene	100	40
o-Xylene	100	35
m-Xylene	100	30
Ethylbenzene	100	70
Styrene	100	10
Ethylene	100	0
Isobutylene	100	0
Isobutylene	2000	100 (faint)
Hexane	100	7 (faint)
CO	3000	0
CO ₂	15000	0
H ₂ S	50	55 (faint ring)
NH ₃	50000	0
CH ₄	25000	0
SO ₂	2050	0

* Data based on Honeywell pumps and tubes used in standard range.

Other Possible Interferences: Other aromatics and reducing agents.

DATA SHEETS