

광화학오염물질 오염도(2022.12)

- 논현동 측정소

(단위 : ppb)

구분	오염물질	분자식	논현동		
			중간값	90%tile	10%tile
1	Ethane	C ₂ H ₆	5.1	8.0	3.7
2	Ethylene	C ₂ H ₄	1.8	3.3	1.0
3	Propane	C ₃ H ₈	2.9	5.4	1.6
4	Propylene	C ₃ H ₆	0.6	1.0	0.4
5	iso-Butane	C ₄ H ₁₀	0.9	1.9	0.5
6	n-Butane	C ₄ H ₁₀	1.6	3.7	0.9
7	Acetylene	C ₂ H ₂	0.4	1.0	0.0
8	trans-2-Butene	C ₄ H ₈	0.1	0.2	0.0
9	1-Butene	C ₄ H ₈	0.1	0.2	0.1
10	cis-2-Butene	C ₄ H ₈	0.1	0.1	0.0
11	Cyclopentane	C ₅ H ₁₀	0.1	0.2	0.0
12	iso-Pentane	C ₅ H ₁₂	0.4	1.3	0.1
13	n-Pentane	C ₅ H ₁₂	0.5	1.0	0.2
14	trans-2-Pentene	C ₅ H ₁₀	0.0	0.1	0.0
15	1-Pentene	C ₅ H ₁₀	0.0	0.1	0.0
16	cis-2-Pentene	C ₅ H ₁₀	0.0	0.1	0.0
17	2,2-Dimethylbutane	C ₆ H ₁₄	0.0	0.1	0.0
18	2,3-Dimethylbutane	C ₆ H ₁₄	0.1	0.2	0.0
19	2-Methylpentane	C ₆ H ₁₄	0.1	0.3	0.0
20	3-Methylpentane	C ₆ H ₁₄	0.1	0.3	0.0
21	Isoprene	C ₅ H ₈	0.0	0.1	0.0
22	1-Hexene	C ₆ H ₁₂	0.0	0.1	0.0
23	n-Hexane	C ₆ H ₁₄	0.3	0.7	0.0
24	Methylcyclopentane	C ₆ H ₁₂	0.2	0.4	0.0
25	2,4-Dimethylpentane	C ₇ H ₁₆	0.0	0.0	0.0
26	Benzene	C ₆ H ₆	0.5	0.7	0.3
27	Cyclohexane	C ₆ H ₁₂	0.0	0.2	0.0
28	2-Methylhexane	C ₇ H ₁₆	0.1	0.2	0.0
29	2,3-Dimethylpentane	C ₇ H ₁₆	0.0	0.1	0.0
30	3-Methylhexane	C ₇ H ₁₆	0.1	0.3	0.0
31	2,2,4-Trimethylpentane	C ₈ H ₁₈	0.1	0.7	0.0
32	n-Heptane	C ₇ H ₁₆	0.2	0.3	0.0
33	Methylcyclohexane	C ₇ H ₁₄	0.2	0.4	0.0
34	2,3,4-Trimethylpentane	C ₈ H ₁₈	0.0	0.1	0.0
35	Toluene	C ₇ H ₈	2.1	5.6	0.5
36	2-Methylheptane	C ₈ H ₁₈	0.0	0.0	0.0
37	3-Methylheptane	C ₈ H ₁₈	0.0	0.1	0.0
38	n-Octane	C ₈ H ₁₈	0.2	0.3	0.0
39	Ethylbenzene	C ₈ H ₁₀	0.5	1.2	0.1
40	m/p-Xylene	C ₈ H ₁₀	0.5	1.2	0.1
41	Styrene	C ₈ H ₈	0.3	0.6	0.0
42	o-Xylene	C ₈ H ₁₀	0.4	0.9	0.1
43	n-Nonane	C ₉ H ₂₀	0.1	0.2	0.0
44	Isopropylbenzene	C ₉ H ₁₂	0.0	0.0	0.0
45	n-Propylbenzene	C ₉ H ₁₂	0.0	0.0	0.0
46	m-Ethyltoluene	C ₉ H ₁₂	0.1	0.3	0.0
47	p-Ethyltoluene	C ₉ H ₁₂	0.2	0.4	0.0
48	1,3,5-Trimethylbenzene	C ₉ H ₁₂	0.0	0.2	0.0
49	o-Ethyltoluene	C ₉ H ₁₂	0.0	0.1	0.0
50	1,2,4-Trimethylbenzene	C ₉ H ₁₂	0.3	0.7	0.0
51	n-Decane	C ₁₀ H ₂₂	0.1	0.3	0.0
52	1,2,3-Trimethylbenzene	C ₉ H ₁₂	0.2	0.6	0.0
53	m-Diethylbenzene	C ₁₀ H ₁₄	0.0	0.0	0.0
54	p-Diethylbenzene	C ₁₀ H ₁₄	0.0	0.0	0.0
55	n-Undecane	C ₁₁ H ₂₄	0.0	0.3	0.0
56	n-Dodecane	C ₁₂ H ₂₆	0.0	0.4	0.0

※ 12월 벤젠 값은 0.5 ppb, 환경기준 연간 5 $\mu\text{g}/\text{m}^3$ (약 1.5 ppb at 1기압 20℃) 이내

※ 12월 VOCs 총합 농도값은 22.9 ppb(중간값 기준)

주) 1. 유효자리수는 소수 첫째 자리까지이며, 0.0으로 표기된 값은 검출한계 이하임을 의미함

2. 중간값(median) : 측정값을 크기순서로 나열하여 중앙에 위치한 값

※ 평균은 극단적인 결과값에 영향을 받으나 중간값은 각 값의 분포상태에 영향을 받지 않음

3. 90 %tile: 농도값 표본을 100 부분으로 분할하여 낮은 값부터 순서대로 일렬로 나열했을 때 90번째 해당하는 값

4. 10 %tile: 농도값 표본을 100 부분으로 분할하여 낮은 값부터 순서대로 일렬로 나열했을 때 10번째 해당하는 값