# 광화학대기오염물질 오염도(2023.9)

## - 논현동 측정소

(단위 : ppb)

| 구분 | 오염물질 | 분자식 | 논현동 | | |
|---|---|---|---|---|---|
| | | | 중간값 | 90%tile | 10%tile |
| 1 | Ethane | $C_2H_6$ | 2.25 | 3.23 | 1.63 |
| 2 | Ethylene | $C_2H_4$ | 0.71 | 1.19 | 0.39 |
| 3 | Propane | $C_3H_8$ | 2.37 | 4.94 | 1.35 |
| 4 | Propylene | $C_3H_6$ | 0.40 | 0.53 | 0.30 |
| 5 | iso-Butane | $C_4H_{10}$ | 1.10 | 1.75 | 0.65 |
| 6 | n-Butane | $C_4H_{10}$ | 1.87 | 3.73 | 0.99 |
| 7 | Acethylene | $C_2H_2$ | 0.32 | 0.54 | 0.16 |
| 8 | trans-2-Butene | $C_4H_8$ | 0.06 | 0.10 | 0.00 |
| 9 | 1-Butene | $C_4H_8$ | 0.09 | 0.14 | 0.06 |
| 10 | cis-2-Butene | $C_4H_8$ | 0.05 | 0.08 | 0.00 |
| 11 | Cyclopentane | $C_5H_{10}$ | 0.00 | 0.09 | 0.00 |
| 12 | iso-Pentane | $C_5H_{12}$ | 0.12 | 0.57 | 0.07 |
| 13 | n-Pentane | $C_5H_{12}$ | 0.43 | 0.82 | 0.22 |
| 14 | trans-2-Pentene | $C_5H_{10}$ | 0.00 | 0.07 | 0.00 |
| 15 | 1-Pentene | $C_5H_{10}$ | 0.03 | 0.06 | 0.00 |
| 16 | cis-2-Pentene | $C_5H_{10}$ | 0.00 | 0.05 | 0.00 |
| 17 | 2,2-Dimethylbutane | $C_6H_{14}$ | 0.04 | 0.06 | 0.00 |
| 18 | 2,3-Dimethylbutane | $C_6H_{14}$ | 0.04 | 0.05 | 0.03 |
| 19 | 2-Methylpentane | $C_6H_{14}$ | 0.06 | 0.11 | 0.04 |
| 20 | 3-Methylpentane | $C_6H_{14}$ | 0.14 | 0.26 | 0.08 |
| 21 | Isoprene | $C_5H_8$ | 0.12 | 0.33 | 0.05 |
| 22 | 1-Hexene | $C_6H_{12}$ | 0.03 | 0.05 | 0.02 |
| 23 | n-Hexane | $C_6H_{14}$ | 0.61 | 1.34 | 0.20 |
| 24 | Methylcyclopentane | $C_6H_{12}$ | 0.18 | 0.39 | 0.00 |
| 25 | 2,4-Dimethylpentane | $C_7H_{16}$ | 0.00 | 0.00 | 0.00 |
| 26 | Benzene | $C_6H_6$ | 0.24 | 0.39 | 0.17 |
| 27 | Cyclohexane | $C_6H_{12}$ | 0.00 | 0.29 | 0.00 |
| 28 | 2-Methylhexane | $C_7H_{16}$ | 0.00 | 0.18 | 0.00 |
| 29 | 2,3-Dimethylpentane | $C_7H_{16}$ | 0.00 | 0.00 | 0.00 |
| 30 | 3-Methylhexane | $C_7H_{16}$ | 0.10 | 0.26 | 0.00 |
| 31 | 2,2,4-Trimethylpentane | $C_8H_{18}$ | 0.31 | 0.76 | 0.00 |
| 32 | n-Heptane | $C_7H_{16}$ | 0.09 | 0.17 | 0.00 |
| 33 | Methylcyclohexane | $C_7H_{14}$ | 0.00 | 0.18 | 0.00 |
| 34 | 2,3,4-Trimethylpentane | $C_8H_{18}$ | 0.00 | 0.00 | 0.00 |
| 35 | Toluene | $C_7H_8$ | 2.66 | 4.99 | 1.41 |
| 36 | 2-Methylheptane | $C_8H_{18}$ | 0.00 | 0.13 | 0.00 |
| 37 | 3-Methylheptane | $C_8H_{18}$ | 0.00 | 0.11 | 0.00 |
| 38 | n-Octane | $C_8H_{18}$ | 0.00 | 0.15 | 0.00 |
| 39 | Ethylbenzene | $C_8H_{10}$ | 0.58 | 1.01 | 0.34 |
| 40 | m/p-Xylene | $C_8H_{10}$ | 0.47 | 0.96 | 0.23 |
| 41 | Styrene | $C_8H8$ | 0.40 | 0.82 | 0.11 |
| 42 | o-Xylene | $C_8H_{10}$ | 0.44 | 0.82 | 0.25 |
| 43 | n-Nonane | $C_9H_{20}$ | 0.00 | 0.15 | 0.00 |
| 44 | Isopropylbenzene | $C_9H_{12}$ | 0.00 | 0.00 | 0.00 |
| 45 | n-Propylbenzene | $C_9H_{12}$ | 0.19 | 0.48 | 0.00 |
| 46 | m-Ethyltoluene | $C_9H_{12}$ | 0.31 | 0.41 | 0.18 |
| 47 | p-Ethyltoluene | $C_9H_{12}$ | 0.27 | 0.40 | 0.16 |
| 48 | 1,3,5-Trimethylbenzene | $C_9H_{12}$ | 0.00 | 0.16 | 0.00 |
| 49 | o-Ethyltoluene | $C_9H_{12}$ | 0.00 | 0.17 | 0.00 |
| 50 | 1,2,4-Trimethylbenzene | $C_9H_{12}$ | 0.46 | 0.72 | 0.26 |
| 51 | n-Decane | $C_{10}H_{22}$ | 0.06 | 0.15 | 0.00 |
| 52 | 1,2,3-Trimethylbenzene | $C_9H_{12}$ | 0.43 | 0.68 | 0.26 |
| 53 | m-Diethylbenzene | $C_{10}H_{14}$ | 0.00 | 0.33 | 0.00 |
| 54 | p-Diethylbenzene | $C_{10}H_{14}$ | 0.00 | 0.33 | 0.00 |
| 55 | n-Undecane | $C_{11}H_{24}$ | 0.54 | 0.65 | 0.33 |
| 56 | n-Dodecane | $C_{12}H_{26}$ | 0.24 | 0.35 | 0.00 |

※ 9월 벤젠 값은 0.24 ppb, 환경기준 연간 5 ㎍/㎥ (약 1.5 ppb at 1기압 20℃) 이내

※ 9월 VOCs 총합 농도값은 20.60 ppb(중간값 기준)

주) 1. 유효자릿수는 소수 둘째 자리까지이며, 0.00으로 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