Clean Air Sarnia and Area - VOC Results

**Station:** Front Street  **Matrix:** SUMMA Canisters  Note: All non-detectable results are reported as "<" *(detection limit)*
**Data Updated:** 16-Jun-26  **Method:** GC/MS

| Substance Name | No. of valid samples | Maximum | Minimum | 24-hour AAQC | No. > 24-hour AAQC | All concentrations in units of µg/m3 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 8-Jan-26 | 23-Jan-26 | 1-Feb-26 | 13-Feb-26 | 25-Feb-26 | 13-Mar-26 | 24-Mar-26 | 2-Apr-26 | 14-Apr-26 | 26-Apr-26 | 8-May-26 | 20-May-26 |
| Acetone | | 9.7 | 5.0 | 11,880 | 0 | 6.4 | 8.3 | 6.2 | <9.3 | 7.6 | 8.3 | 9.7 | 5.7 | 8.6 | 5 | 7.6 | 8.6 |
| Allyl chloride | | 0.0 | 0.0 | | n/a | <0.63 | <0.63 | <0.63 | <0.63 | <0.63 | <0.63 | <0.63 | <0.63 | <0.63 | <0.63 | <0.63 | <0.63 |
| Benzene | | 6.0 | 0.4 | 2.3 | 3 | 4.92 | 0.35 | 1.5 | 6.01 | 0.58 | 0.7 | 3.74 | 0.54 | 0.86 | <0.32 | 0.48 | <0.32 |
| Benzyl chloride | | 0.0 | 0.0 | | n/a | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Bromodichloromethane | | 0.0 | 0.0 | | n/a | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| Bromoform | | 0.0 | 0.0 | 55 | 0 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 |
| Bromomethane | | 0.0 | 0.0 | 1,350 | 0 | <0.78 | <0.78 | <0.78 | <0.78 | <0.78 | <0.78 | <0.78 | <0.78 | <0.78 | <0.78 | <0.78 | <0.78 |
| 1,3-Butadiene | | 0.9 | 0.9 | 10 | 0 | <0.44 | <0.44 | <0.44 | <0.75 | <0.44 | <0.44 | <0.44 | <0.44 | 0.86 | <0.44 | <0.44 | <0.44 |
| Carbon Disulfide | | 0.0 | 0.0 | 330 | 0 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 |
| Carbon Tetrachloride | | 0.0 | 0.0 | 2.4 | 0 | <1.26 | <1.26 | <1.26 | <1.26 | <1.26 | <1.26 | <1.26 | <1.26 | <1.26 | <1.26 | <1.26 | <1.26 |
| Chlorobenzene | | 0.0 | 0.0 | | n/a | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 | <0.92 |
| Chloroethane | | 0.0 | 0.0 | 5,600 | 0 | <0.53 | <0.53 | <0.53 | <0.53 | <0.53 | <0.53 | <0.53 | <0.53 | <0.53 | <0.53 | <0.53 | <0.53 |
| Chloroform | | 0.0 | 0.0 | 1 | 0 | <0.98 | <0.98 | <0.98 | <0.98 | <0.98 | <0.98 | <0.98 | <0.98 | <0.98 | <0.98 | <0.98 | <0.98 |
| Chloromethane | | 11.0 | 0.8 | 320 | 0 | 11 | 0.85 | 1.38 | 1.53 | 1.14 | 1.24 | 4.4 | 1.42 | 1.73 | 0.95 | 1.16 | 0.83 |
| Cyclohexane | | 2.3 | 0.9 | 6,100 | 0 | 0.86 | <0.69 | <0.69 | <1.00 | <0.69 | <0.69 | <0.69 | <0.69 | 2.34 | <0.69 | <0.69 | <0.69 |
| Dibromochloromethane | | 0.0 | 0.0 | | n/a | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| 1,2-Dibromoethane | | 0.0 | 0.0 | 3 | 0 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 |
| 1,2-Dichlorobenzene | | 0.0 | 0.0 | | n/a | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| 1,3-Dichlorobenzene | | 0.0 | 0.0 | | n/a | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| 1,4-Dichlorobenzene | | 0.0 | 0.0 | 95 | 0 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Dichlorodifluoromethane | | 2.8 | 2.0 | 500,000 | 0 | 2.5 | 2.8 | 2.4 | 2.4 | 2.2 | 2.4 | 2.4 | 2.4 | 2.3 | 2.5 | 2.3 | 2 |
| 1,1-Dichloroethane | | 0.0 | 0.0 | 165 | 0 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 |
| 1,2-Dichloroethane | | 0.0 | 0.0 | 2 | 0 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 |
| 1,1-Dichloroethene (dichloroethylene) | | 0.0 | 0.0 | 10 | 0 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 |
| cis-1,2-Dichloroethene | | 0.0 | 0.0 | 105 | 0 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 |
| trans-1,2-Dichloroethene | | 0.0 | 0.0 | 105 | 0 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 |
| Methylene chloride (dichloromethane) | | 0.7 | 0.7 | 220 | 0 | <0.69 | <0.69 | <0.69 | 0.73 | <0.69 | <0.69 | <0.69 | <0.69 | <0.69 | <0.69 | <0.69 | <0.69 |
| 1,2-Dichloropropane | | 0.0 | 0.0 | 2,400 | 0 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 |
| cis+trans-1,3-dichloropropylene | | 0.0 | 0.0 | | n/a | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 |
| cis-1,3-Dichloropropene (propylene) | | 0.0 | 0.0 | | n/a | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 |
| trans-1,3-Dichloropropene | | 0.0 | 0.0 | | n/a | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| 1,2-dichlorotetrafluoroethane (Freon 114) | | 0.0 | 0.0 | 700,000 | 0 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 |
| 1,4-Dioxane | | 1.8 | 1.8 | 3,500 | 0 | <0.72 | <0.72 | <0.72 | <1.15 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | 1.84 | <0.72 |
| Ethyl acetate | | 0.6 | 0.6 | | n/a | <0.43 | <0.43 | <0.43 | 0.56 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 |
| Ethylbenzene | | 0.0 | 0.0 | 1,000 | 0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 4-Ethyltoluene | | 1.2 | 1.2 | | n/a | <0.82 | <0.82 | <0.82 | 1.23 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 |
| n-Heptane | | 0.0 | 0.0 | 11,000 | 0 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 |
| Hexachlorobutadiene | | 11.5 | 0.9 | | n/a | 6.70 | <0.70 | 0.85 | 11.50 | <0.70 | 1.87 | 2.82 | <0.70 | 9.27 | <0.70 | 1.76 | <0.70 |
| n-Hexane | | 0.0 | 0.0 | 2,500 | 0 | <4.10 | <4.10 | <4.10 | <4.10 | <4.10 | <4.10 | <4.10 | <4.10 | <4.10 | <4.10 | <4.10 | <4.10 |
| 2-Hexanone | | 4.2 | 2.9 | | n/a | <2.5 | <2.5 | <2.5 | 2.90 | <2.5 | <2.5 | <2.5 | <2.5 | 4.20 | <2.5 | <2.5 | <2.5 |
| Isopropanol | | 0.0 | 0.0 | 7,300 | 0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Isopropylbenzene | | 1.1 | 0.8 | 400 | 0 | 0.86 | <0.59 | <0.59 | 1.12 | <0.59 | <0.59 | 0.77 | <0.59 | <0.59 | <0.59 | 0.91 | <0.59 |
| Methyl ethyl ketone (MEK) | | 0.0 | 0.0 | 1,000 | 0 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 | <0.82 |
| Methyl isobutyl ketone (MIBK) | | 0.0 | 0.0 | 1,200 | 0 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 |
| Methyl tert-butyl ether (MTBE) | | 0.9 | 0.5 | 7,000 | 0 | <0.58 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | 0.52 | <0.52 | 0.89 | <0.52 |
| Naphthalene | | 2.8 | 1.6 | 23 | 0 | <2.58 | <0.57 | <1.76 | <7.50 | <1.29 | <0.60 | 2.82 | <0.83 | 1.55 | <0.34 | <0.86 | <0.34 |
| Propylene | | 0.0 | 0.0 | 4,000 | 0 | <0.85 | <0.85 | <0.85 | <0.85 | <0.85 | <0.85 | <0.85 | <0.85 | <0.85 | <0.85 | <0.85 | <0.85 |
| Styrene | | 0.0 | 0.0 | 400 | 0 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| 1,1,2,2-Tetrachloroethane | | 0.0 | 0.0 | | n/a | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Tetrachloroethylene | | 0.0 | 0.0 | 360 | 0 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 | <0.59 |
| Tetrahydrofuran | | 7.8 | 0.5 | 93,000 | 0 | 4.07 | <0.38 | 1.13 | 5.99 | 0.53 | 0.79 | 4.90 | 3.73 | 2.49 | 0.68 | 7.80 | <0.38 |
| Toluene | | 0.0 | 0.0 | 2,000 | 0 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 |
| Freon 113 | | 0.0 | 0.0 | 800,000 | 0 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 |
| 1,2,4-Trichlorobenzene | | 0.0 | 0.0 | 400 | 0 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 |
| 1,1,1-Trichloroethane | | 0.0 | 0.0 | 115,000 | 0 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 |
| 1,1,2-Trichloroethane | | 0.0 | 0.0 | | n/a | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 |
| Trichloroethylene | | 1.2 | 1.2 | 12 | 0 | 1.20 | <1.1 | 1.20 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 |
| Trichlorofluoromethane | | 0.0 | 0.0 | 6,000 | 0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2,4-Trimethylbenzene | | 0.0 | 0.0 | 220 | 0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,3,5-Trimethylbenzene | | 0.0 | 0.0 | 220 | 0 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 |
| 2,2,4-trimethylpentane (Isooctane) | | 0.0 | 0.0 | | n/a | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 |
| Vinyl acetate | | 0.0 | 0.0 | | n/a | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 |
| Vinyl bromide | | 0.0 | 0.0 | | n/a | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 |
| Vinyl chloride | | 1.3 | 1.0 | 1 | 1 | <0.87 | <0.87 | <0.87 | 1.30 | <0.87 | <0.87 | <0.87 | <0.87 | 1.00 | <0.87 | <0.87 | <0.87 |
| m&p-Xylene | | 0.6 | 0.6 | | n/a | <0.43 | <0.43 | <0.43 | 0.56 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 |
| o-Xylene | | 1.9 | 1.9 | | n/a | <1.3 | <1.3 | <1.3 | 1.90 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| Xylenes Total | | 14.4 | 2.6 | | n/a | 9.00 | <2.4 | 2.60 | 14.40 | <2.4 | <2.4 | 8.60 | 4.30 | 4.30 | <2.4 | 8.30 | <2.4 |
| BTEX Total | | 0.0 | 0.0 | | n/a | | | | | | | | | | | | |

**Notes:**

'< - means below method detection limit, only values measured above detection limit are shown

N/S - Not Sampled.

'INV - Invalid sample as final canister pressure was outside of Operations Manual for Air Monitoring in Ontario criteria.