



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Volatile Organic Compounds in Drinking Water by GC-MS

Method Number: EPA-524.2 WI

Scope of Application: Method used for the testing of bottled drinking water as a RTD beverage.

Description: The volatile content of the aqueous sample is determined by purging the sample with helium and then concentrating the sample onto a trap where it is then desorbed onto the GC/MS system. Compound determination is achieved by using retention time and ion identification technique.

Sample Weight Required: 80 mL of sample minimum, 120 mL preferred

Method Reference: EPA 524.2. Note NQAC Dublin is not EPA certified.

Analytical Platform: Purge and Trap / GC-MS

Special Information: Original containers for finished product.
Non-finished product may be submitted in 40 mL VOA vial with zero headspace after sample collection. Contact NQAC Dublin for guidance.

Compound	Quantitation Limit	Variation
Benzene	0.50 µg/L	NA
Bromobenzene	0.50 µg/L	NA
Bromochloromethane	0.50 µg/L	NA
Bromodichloromethane	0.50 µg/L	NA
Bromoform	0.50 µg/L	NA
Bromomethane	0.50 µg/L	NA
n-Butylbenzene	0.50 µg/L	NA
sec-Butylbenzene	0.50 µg/L	NA
tert-Butylbenzene	0.50 µg/L	NA
Carbon tetrachloride	0.50 µg/L	NA



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Chlorobenzene	0.50 µg/L	NA
Chloroethane	0.50 µg/L	NA
Chloroform	0.50 µg/L	NA
Chloromethane	0.50 µg/L	NA
2-Chlorotoluene	0.50 µg/L	NA
4-Chlorotoluene	0.50 µg/L	NA
Dibromochloromethane	0.50 µg/L	NA
1,2-Dibromo-3-chloropropane	0.50 µg/L	NA
1,2-Dibromoethane	0.50 µg/L	NA
Dibromomethane	0.50 µg/L	NA
1,2-Dichlorobenzene	0.50 µg/L	NA
1,3-Dichlorobenzene	0.50 µg/L	NA
1,4-Dichlorobenzene	0.50 µg/L	NA
Dichlorofluoromethane	0.50 µg/L	NA
1,1-Dichloroethane	0.50 µg/L	NA
1,2-Dichloroethane	0.50 µg/L	NA
1,1-Dichloroethene	0.50 µg/L	NA
cis-1,2-Dichloroethene	0.50 µg/L	NA
trans-1,2-Dichloroethene	0.50 µg/L	NA
1,2-Dichloropropane	0.50 µg/L	NA
1,3-Dichloropropane	0.50 µg/L	NA
2,2-Dichloropropane	0.50 µg/L	NA
1,1-Dichloropropene	0.50 µg/L	NA
cis 1,3-Dichloropropene	0.50 µg/L	NA
trans-1,3-Dichloropropene	0.50 µg/L	NA
Ethylbenzene	0.50 µg/L	NA
Hexachlorobutadiene	0.50 µg/L	NA
Isopropylbenzene	0.50 µg/L	NA
4-Isopropyltoluene	0.50 µg/L	NA
Methylene chloride	0.50 µg/L	NA
Methyl-tert-butyl-ether	0.50 µg/L	NA
Napthalene	0.50 µg/L	NA
n-Propylbenzene	0.50 µg/L	NA
Styrene	0.50 µg/L	NA
1,1,1,2-Tetrachloroethane	0.50 µg/L	NA
1,1,2,2-Tetrachloroethane	0.50 µg/L	NA
Tetrachloroethene	0.50 µg/L	NA



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Toluene	0.50 µg/L	NA
1,2,3-Trichlorobenzene	0.50 µg/L	NA
1,2,4-Trichlorobenzene	0.50 µg/L	NA
1,1,1-Trichloroethane	0.50 µg/L	NA
1,1,2-Trichloroethane	0.50 µg/L	NA
Trichloroethene	0.50 µg/L	NA
Trichlorofluoromethane	0.50 µg/L	NA
1,2,3-Trichloropropane	0.50 µg/L	NA
1,2,4-Trimethylbenzene	0.50 µg/L	NA
1,3,5-Trimethylbenzene	0.50 µg/L	NA
Vinyl chloride	0.50 µg/L	NA
o-Xylene	0.50 µg/L	NA
m+p-Xylenes	0.50 µg/L	NA
Total TMHs	0.50 µg/L	NA
Xylenes, Total (m, p & o)	0.50 µg/L	NA