



ENVIROTEK LABORATORIES, INC.

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EPA ID # NJ01298 NJ DEP ID # 03048 NY ELAP ID # 12044

PROPUR PROMAX FULL SPECTRUM FILTER VOC'S CONTAMINANTS TEST REPORT

Report # 17-03-VOC's Contaminants (Propur ProMax Full Spectrum Filter)

Report Date: 03/21/2017

Customer Name: Propur

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Volatile Organic Compounds (VOC's) Standard Solution to have a final concentration specified by the NSF Std. 53; the spiked tap water was filtered through the filter element and tested; the Propur ProMax Full Spectrum Filter meets the NSF VOC's reduction test up to 100 gallons, tested following the NSF Std. 53.

INTRODUCTION

One Hundred gallons of tap water was spiked with Volatile Organic Compounds (VOC's) Standard Solution to have a final concentration specified by the NSF Std. 53, the spiked tap water was filtered through the filter element and tested; the Propur ProMax Full Spectrum Filter meets the NSF VOC's reduction test up to 100 gallons, tested following the NSF Std. 53.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Agilent GC/MS 6890 plus/5973 mass spectrometer.

Restek Mega Mix Standard Solution Catalog

Propur ProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with VOC's Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration specified by the NSF Std. 53, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested every 20 gallons following the EPA method 524.2 for VOC's in drinking water. The results are summarized in Table 2 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.55	7.00 to 8.00
Temperature	20.5 °C	20 ± 2.5°C
TDS	375 mg/L	200 to 500 mg/L
Turbidity	0.65 NTU	<1 Nephelometric Turbidity Units

Table 2
Filtered Water VOC's Test Results

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Dichlorodifluoromethane	81.53	Not specified	99.9+ %
Chloromethane	100.09	Not specified	99.9+ %
Vinylchloride	91.50	2 µg/L	99.9+ %
Bromomethane	110.70	Not specified	99.9+ %
Chloroethane	116.73	Not specified	99.9+ %
Trichlorofluoromethane	95.06	Not specified	99.9+ %
1,1-Dichloroethene	89.04	Not specified	99.9+ %
Methylene Chloride	49.45	Not specified	98.9 %
trans-1,2-Dichloroethene	88.45	100 µg/L	99.9+ %
MTBE	87.62	5 µg/L	99.0 %
1,1-Dichloroethane	81.79	Not specified	99.9+ %
cis-1,2-Dichloroethene	86.36	5 µg/L	99.9+ %
2,2-Dichloropropane	79.99	5 µg/L	99.9+ %
Bromochloromethane	89.59	Not specified	99.9+ %
Carbon Tetrachloride	76.97	5 µg/L	99.9+ %
1,1,1-Trichloroethane	81.27	Not specified	99.9+ %
1,1-Dichloropropene	82.96	Not specified	99.9+ %
1,2-Dichloroethane	80.09	Not specified	99.9+ %
Trichloroethene	80.41	Not specified	99.9+ %



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Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Benzene	86.50	5 µg/L	96.7 %
Dibromomethane	90.60	Not specified	99.9+ %
1,2-Dichloropropane	83.38	5 µg/L	99.9+ %
cis-1,3-Dichloropropene	90.36	5 µg/L	99.9+ %
Toluene	1087	1000 µg/L	99.3 %
trans-1,3-Dichloropropene	89.59	5 µg/L	99.9+ %
Tetrachloroethene	91.00	Not specified	99.9+ %
1,1,2-Trichloroethane	91.51	5 µg/L	99.9+ %
1,3-Dichloropropane	90.94	Not specified	99.9+ %
Ethylbenzene	103.08	700 µg/L	99.9+ %
Chlorobenzene	87.35	100 µg/L	99.9+ %
1,1,1,2-Tetrachloroethane	59.81	Not specified	99.9+ %
Xylenes	10085	10000 µg/L	99.9+ %
Styrene	104.57	Not specified	99.9+ %
Bromoform	102.68	Not specified	99.9+ %
Isopropylbenzene	89.23	Not specified	99.9+ %
n-Propylbenzene	89.06	Not specified	99.9+ %
Bromobenzene	104.51	Not specified	99.9+ %
1,1,2,2-Tetrachloroethane	104.51	Not specified	99.9+ %
1,3,5-Trimethylbenzene	93.04	5 µg/L	99.9+ %
2-Chlorotoluene	97.15	5 µg/L	99.9+ %
1,2,3-Trichloropropane	89.96	5 µg/L	99.9+ %
4-Chlorotoluene	89.23	Not specified	99.9+ %
tert-Butylbenzene	94.49	Not specified	99.9+ %
1,2,4-Trimethylbenzene	91.75	Not specified	99.9+ %
sec-Butylbenzene	91.37	5 µg/L	99.9+ %
4-Isopropyltoluene	89.16	5 µg/L	99.9+ %
1,3-Dichlorobenzene	89.09	5 µg/L	99.9+ %
1,4-Dichlorobenzene	91.70	5 µg/L	99.9+ %
n-Butylbenzene	94.32	Not specified	99.9+ %
1,2-Dichlorobenzene	86.43	Not specified	99.9+ %
Hexachlorobutadiene	90.26	Not specified	99.9+ %
1,2,4-Trichlorobenzene	92.76	Not specified	99.9+ %
Naphthalene	105.60	Not specified	99.9+ %
1,2,3-Trichlorobenzene	92.70	Not specified	99.9+ %
Chloroform	78.97	Specified as THM's	97.0 %
Bromodichloromethane	85.53	Specified as THM's	99.9+ %
Chlorodibromomethane	92.04	Specified as THM's	99.9+ %
Bromoform	102.68	Specified as THM's	99.9+ %
Total Trihalomethanes (TTHM's)	359.22	80 µg/L	99.1 %

CONCLUSION:

The Propur ProMax Full Spectrum Filter meets the NSF VOC's reduction test for up to 100 gallons, tested following the NSF Std. 53.



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CERTIFICATION OF RESULTS:

I certify in writing that all analyses, and reporting performed herein, comply with all requirements set forth in N.J.A.C. 7:9E and N.J.A.C. 7:18, and hereby certify that this laboratory is in compliance with all laboratory certification and quality control procedures and requirements as set forth in N.J.A.C. 7:18; the NYCRR Subpart 55-2 and the National Environmental Laboratory Accreditation Conference (NELAC) Institute Standards.

Disclaimer: The test results are only related to the filter sample tested.

Jaime A. Young

Jaime A. Young
Lab Director

Propur™
WATER
PURIFICATION
SYSTEMS

The reduction of contaminants or other substances that may be present in your water supply may vary depending on its content. The contaminants or other substances reduced are not necessarily present in all users water. Some contaminants may be more easily filtered than others. Percentage of reduction will vary over the life of the filter based on the level of contaminant(s) found in your water supply, user rate and psi of your water source. Testing was performed under standard laboratory conditions. Actual performance may vary. Do not use with water that is microbiologically unsafe or of unknown water quality with adequate disinfection.