



ENVIROTEK LABORATORIES, INC.

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

PROPUR PROMAX FULL SPECTRUM FILTER SEMIVOLATILE CONTAMINANTS TEST REPORT

Report # 17-03-Semivolatile 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 Semivolatile Organic Compounds (Industrial Waste Compounds) 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 Semivolatile Organic Compounds reduction test up to 100 gallons, tested following the NSF Std. 53.

INTRODUCTION

One Hundred gallons of tap water was spiked with Semivolatile Organic Compounds (Industrial Waste Compounds) 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 Semivolatile Organic Compounds 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 Semivolatile Mega Mix Standard Solution

Propur ProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with Semivolatile Organic Compounds 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 525 for Semivolatile Organic Compounds in drinking water. The results are summarized in Table 2 below.

RESULTS

**Table 1
Influent Challenge Water Properties**

Parameter	Influent Challenge Water	Target
pH	7.65	7.00 to 8.00
Temperature	21.5 °C	20 ± 2.5°C
TDS	385 mg/L	200 to 500 mg/L
Turbidity	0.75 NTU	<1 Nephelometric Turbidity Units

**Table 2
Filtered Water Semivolatile Organic Compounds Test Results**

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
N-Nitrosodimethylamine	50.68	Not specified	99.9+ %
Phenol	50.89	Not specified	99.9+ %
Bis(2-chloroethyl) ether	49.68	Not specified	99.9+ %
2-Chlorophenol	49.85	Not specified	99.9+ %
1,3-Dichlorobenzene	49.38	Not specified	99.9+ %
1,4-Dichlorobenzene	49.50	Not specified	99.9+ %
1,2-Dichlorobenzene	49.38	Not specified	99.9+ %
2,2-Oxybis(1-chloropropane)	49.04	Not specified	99.9+ %
Hexachloroethane	48.14	Not specified	99.9+ %
N-Nitroso-di-n-propylamine	48.82	Not specified	99.9+ %
Nitrobenzene	48.29	Not specified	99.9+ %
Isophrone	48.18	Not specified	99.9+ %
2-Nitrophenol	48.78	Not specified	99.9+ %
2,2-Dimethylphenol	48.11	Not specified	99.9+ %
Bis(2-chloroethoxy)methane	47.81	Not specified	99.9+ %
2,4-Dichlorophenol	48.39	Not specified	99.9+ %



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Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA % Reduction Limit	% Reduction at 100 gallons
1,2,4-Trichlorobenzene	48.84	Not specified	99.9+ %
Naphthalene	47.93	Not specified	99.9+ %
Hexachlorobutadiene	49.06	Not specified	99.9+ %
4-Chloro-3-methylphenol	49.06	Not specified	99.9+ %
Hexachlorocyclopentadiene	50.69	<0.2 µg/L	99.9+ %
2,4,6-Trichlorophenol	50.00	Not specified	99.9+ %
2-Chloronaphthalene	49.14	Not specified	99.9+ %
Acenaphthylene	48.81	<0.2 µg/L	99.9+ %
Dimethylphthalate	49.92	Not specified	99.9+ %
2,6-Dinitrotoluene	46.55	Not specified	99.9+ %
Acenaphthene	35.98	Not specified	99.9+ %
2,4-Dinitrophenol	50.00	Not specified	99.9+ %
2,4-Dinitrotoluene	49.22	Not specified	99.9+ %
4-Nitrotoluene	47.54	Not specified	99.9+ %
Fluorene	47.87	Not specified	99.9+ %
4-Chlorophenyl phenyl ether	49.80	Not specified	99.9+ %
Diethylphthalate	49.19	Not specified	99.9+ %
Dinitro-o-cresol	48.24	Not specified	99.9+ %
Diphenylamine	73.08	Not specified	99.9+ %
4-Bormophenyl phenyl ether	46.84	Not specified	99.9+ %
Haxachlorobenzene	46.80	Not specified	99.9+ %
Pentachlorophenol	50.30	Not specified	99.9+ %
Phenanthrene	49.89	<0.2 µg/L	99.9+ %
Anthracene	49.84	<0.2 µg/L	99.9+ %
Di-n-butylphthalate	50.38	Not specified	99.9+ %
Fluoranthene	50.42	Not specified	99.9+ %
Pyrene	49.68	Not specified	99.9+ %
Benzyl butyl phthalate	50.94	Not specified	99.9+ %
Benzo(a) anthracene	50.34	Not specified	99.9+ %
Chrysene	50.30	<0.2 µg/L	99.9+ %
Bis(2-ethylhexyl) phthalate	52.04	Not specified	99.9+ %
Di-n-octyl phthalate	53.16	Not specified	99.9+ %
Benzo(b) fluoranthene	52.31	Not specified	99.9+ %
Benzo(k) fluoranthene	52.31	Not specified	99.9+ %
Benzo(a) pyrene	50.59	Not specified	99.9+ %
Indeno(1,2,3-cd) pyrene	50.23	Not specified	99.9+ %
Dibenzo(a,h)anthracene	50.45	Not specified	99.9+ %
Benzo(g,h,i) perylene	50.65	Not specified	99.9+ %

CONCLUSION:

The Propur ProMax Full Spectrum Filter meets the NSF Semivolatle Organic Compounds reduction test for up to 100 gallons, tested following the NSF Std. 53.

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.

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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.