

Vaporbrothers Vaporizer Air Quality Tests



Air quality tests: TO-15 (Volatile Organic Compounds)

Additional toxic metals vapor / ions in airstream

Date of study: 7/7/2011

Test description: Air was drawn through a vaporizer and whip for 24 hours. Vaporizer operating at max temperature.

Compound	1,1,2-Trichloroethane	Acetone	Benzene	Benzyl chloride	Cr6+ (chromium VI)	Hg (mercury)	n-Hexane	Pb (lead)	Toluene	Vinyl Chloride (PVC)
PPM (Detected parts per million)	ND	0.6	ND	ND	ND	ND	ND	ND	0.01	0
ASTDR Reference Level (MRL) for <365 days inhalation	0.7	13	0.009	n/a	n/a	n/a	0.6	n/a	1	0.03
% of ASTDR MRL	0%	5%	0%	0%	0%	0%	0%	0%	1%	0%
PASS/FAIL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

ND = Not Detected

MRL Data provided by the Agency for Toxic Substances and Disease Registry

Analysis Acetone and Toluene disappear after 1 day operation due to new paint drying

Vaporbrothers intends its products to operate without out gassing smells or chemical odors. The Original Vaporbrothers Vaporizer (VB1) has been designed to be left on at full power indefinitely, without its parts breaking down due to overheating.

Designs are carefully planned to not include any lead, cadmium, or mercury, and the heated areas are free of teflon, aluminum, or any plastics. All internal components are designed to handle high operating temperature without breaking down over time.

In addition to the air quality test above, components have been individually evaluated through electron spectroscopy to ensure they don't contain toxic substances. Heated surfaces are ceramic and glass only. High temperature resistant medical grade silicone has been used for seals. Wooden housing and outer finishes are sourced from the EU and are rated "Low V.O.C." Inside finish is a ceramic infused enamel rated to 600F. All RoHS rated electronics use lead free solder and are designed by Vaporbrothers to "run cool" (avoiding chance of early failure or smell).