



CERTIFIED WEIGHT REPORT

Part Number: **96047**
 Lot Number: **071320**
 Description: **VOC Standard 2**

Solvent(s): **Methanol**
 Lot#: **DX932-USQ1**

Expiration Date: **071323**

Recommended Storage: **Freezer (0 °C)**

Nominal Concentration (µg/mL): **1000**

NIST Test ID#: **23060**

5E-05 Balance Uncertainty

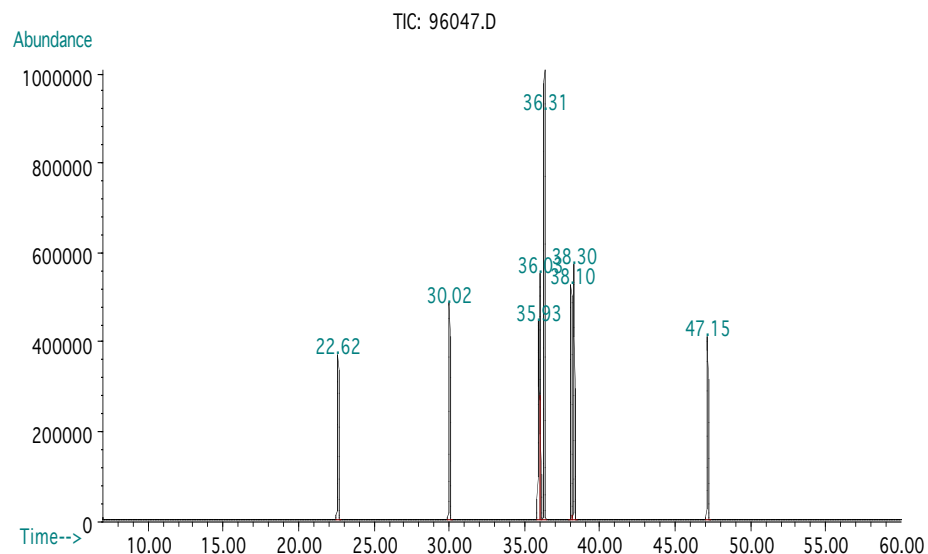
Volume(s) shown below were combined and diluted to (mL): **100.0** 0.012 Flask Uncertainty

<i>Gabriel Helland</i>		071320
Formulated By:	Gabriel Helland	DATE
<i>Pedro L. Rentas</i>		071320
Reviewed By:	Pedro L. Rentas	DATE

SDS Information

(Solvent Safety Info. On Attached pg.)

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Benzene	21001	012819	0.05	5.00	0.017	20000.5	1000.0	7.9	71-43-2	1 ppm	orl-rat 4894mg/kg
2. Toluene	21001	012819	0.05	5.00	0.017	20000.7	1000.0	7.9	108-88-3	200 ppm	orl-rat 5000mg/kg
3. Ethyl benzene	21001	012819	0.05	5.00	0.017	20001.0	1000.0	7.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
4. o-Xylene	21001	012819	0.05	5.00	0.017	20001.1	1000.0	7.9	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
5. m-Xylene	21001	012819	0.05	5.00	0.017	20000.8	1000.0	7.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
6. p-Xylene	21001	012819	0.05	5.00	0.017	20000.3	1000.0	7.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
7. Chlorobenzene	32101	122619	0.05	5.00	0.017	20000.8	1000.0	7.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
8. 1,2-Dichlorobenzene	32191	071320	0.05	5.00	0.017	20006.8	1000.3	7.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
9. Styrene	32381	052120	0.05	5.00	0.017	20041.4	1002.0	7.9	100-42-5	100 ppm	orl-rat 5000mg/kg



Method: GC6MSD-1. Detector: Mass Selective Detector.
 Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Candice Warren.

Analyte	MSD RT (min.)
Benzene	22.64
Toluene	30.03
Chlorobenzene	35.94
Ethylbenzene	36.04
m-Xylene	36.30
p-Xylene	36.30
o-Xylene	38.12
Styrene	38.32
1,2-Dichlorobenzene	47.16

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Run 7, "P96047 L071320 [1000µg/mL in MeOH]"**

Run Length: 60.00 min, 36000 points at 10 points/second.

Created: Mon, Jul 13, 2020 at 8:27:35 PM.

Sampled: Sequence "071320-GC15", Method "GC15-M8".

Analyzed using Method "GC15-M8".

Comments

GC15-M8 Analysis by Candice Warren

Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness

Flow rates: Total flow=150mL/min., Helium (carrier)=10mL/min.,

Helium(make-up)=40mL/min., Hydrogen(make-up)=100mL/min.

Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),

Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.

ELCD Signal = Edaq Channel 1 PID Signal = Edaq Channel 2

Standard injection = 0.5µL, Range=4 Purge Valve = 0 min.

