







# For EPA 524.4 analysis, Restek recommends...



## EPA 524.3 Reference Standards

(5 separate mixes, including a MegaMix standard)

Each ampul sold separately.

### Cat.# 30013: 524.3 VOA MegaMix (69 components)

Allyl chloride (3-chloropropene) (107-05-1)  
 tert-Amyl ethyl ether (TAE) (919-94-8)  
 tert-Amyl methyl ether (TAME) (994-05-8)  
 Benzene (71-43-2)  
 Bromobenzene (108-86-1)  
 Bromochloromethane (74-97-5)  
 Bromodichloromethane (75-27-4)  
 Bromoform (75-25-2)  
 tert-Butanol (TBA) (75-65-0)  
 n-Butylbenzene (104-51-8)  
 sec-Butylbenzene (135-98-8)  
 tert-Butylbenzene (98-06-6)  
 Carbon disulfide (75-15-0)  
 Carbon tetrachloride (56-23-5)  
 Chlorobenzene (108-90-7)  
 Chloroform (67-66-3)  
 1-Chlorobutane (butyl chloride) (109-69-3)  
 2-Chlorotoluene (95-49-8)  
 4-Chlorotoluene (106-43-4)  
 Dibromochloromethane (124-48-1)  
 1,2-Dibromo-3-chloropropane (96-12-8)  
 Dibromomethane (74-95-3)  
 1,2-Dibromoethane (EDB) (106-93-4)  
 1,2-Dichlorobenzene (95-50-1)  
 1,3-Dichlorobenzene (541-73-1)  
 1,4-Dichlorobenzene (106-46-7)  
 1,1-Dichloroethane (75-34-3)  
 1,2-Dichloroethane (107-06-2)  
 1,1-Dichloroethene (75-35-4)  
 cis-1,2-Dichloroethene (156-59-2)  
 trans-1,2-Dichloroethene (156-60-5)  
 1,2-Dichloropropane (78-87-5)  
 1,3-Dichloropropane (142-28-9)  
 1,1-Dichloropropene (563-58-6)  
 cis-1,3-Dichloropropene (10061-01-5)  
 trans-1,3-Dichloropropene (10061-02-6)  
 Diethyl ether (ethyl ether) (60-29-7)  
 Diisopropyl ether (DIPE) (108-20-3)  
 Ethylbenzene (100-41-4)  
 Ethyl-tert-butyl ether (ETBE) (637-92-3)  
 Ethyl methacrylate (97-63-2)  
 Hexachlorobutadiene (87-68-3)  
 Hexachloroethane (67-72-1)  
 Iodomethane (methyl iodide) (74-88-4)  
 Isopropylbenzene (cumene) (98-82-8)  
 4-Isopropyltoluene (p-cymene) (99-87-6)  
 Methyl acetate (79-20-9)  
 Methyl-tert-butyl ether (MTBE) (1634-04-4)

Methylene chloride (dichloromethane) (75-09-2)  
 Naphthalene (91-20-3)  
 Pentachloroethane (76-01-7)  
 n-Propylbenzene (103-65-1)  
 Styrene (100-42-5)  
 Tetrachloroethene (127-18-4)  
 1,1,1,2-Tetrachloroethane (630-20-6)  
 1,1,2,2-Tetrachloroethane (79-34-5)  
 Tetrahydrofuran (109-99-9)  
 Toluene (108-88-3)  
 1,2,3-Trichlorobenzene (87-61-6)  
 1,2,4-Trichlorobenzene (120-82-1)  
 1,1,1-Trichloroethane (71-55-6)  
 1,1,2-Trichloroethane (79-00-5)  
 Trichloroethene (79-01-6)  
 1,2,3-Trichloropropane (96-18-4)  
 1,2,4-Trimethylbenzene (95-63-6)  
 1,3,5-Trimethylbenzene (108-67-8)  
 m-Xylene (108-38-3)  
 o-Xylene (95-47-6)  
 p-Xylene (106-42-3)

### Cat.# 30014: 524.3 Gas Calibration Mix (7 components)

Bromomethane (methyl bromide) (74-83-9)  
 1,3-Butadiene (106-99-0)  
 Chlorodifluoromethane (CFC-22) (75-45-6)  
 Chloromethane (methyl chloride) (74-87-3)  
 Dichlorodifluoromethane (CFC-12) (75-71-8)  
 Trichlorofluoromethane (CFC-11) (75-69-4)  
 Vinyl chloride (75-01-4)

### Cat.# 30015: 524.3 Internal Standard Mix (3 components)

Chlorobenzene-d5 (3114-55-4)  
 1,4-Dichlorobenzene-d4 (3855-82-1)  
 1,4-Difluorobenzene (540-36-3)

### Cat.# 30016: 524.3 Surrogate Standard (3 components)

1-Bromo-4-fluorobenzene (BFB) (460-00-4)  
 Methyl-d3-tert-butyl ether (29366-08-3)  
 1,2-Dichlorobenzene-d4 (2199-69-1)

### Cat.# 30017: 524.3 Internal Standard/Surrogate Mix (6 components)

1-Bromo-4-fluorobenzene (BFB) (460-00-4)  
 Methyl-d3-tert-butyl ether (29366-08-3)  
 Chlorobenzene-d5 (3114-55-4)  
 1,2-Dichlorobenzene-d4 (2199-69-1)  
 1,4-Dichlorobenzene-d4 (3855-82-1)  
 1,4-Difluorobenzene (540-36-3)

Conc. in Solvent	CRM?	Min Shelf Life on Ship Date	Max Shelf Life on Ship Date	Shipping Conditions	Storage Temp.	qty.	cat.#
<b>524.3 Gas Calibration Mix</b>							
2000 µg/mL each in P&T methanol, 1 mL/ampul	Yes	6 months	36 months	Ambient	0 °C or colder	ea.	30014
<b>524.3 Internal Standard Mix</b>							
2000 µg/mL each in P&T methanol, 1 mL/ampul	Yes	6 months	60 months	Ambient	0 °C or colder	ea.	30015
<b>524.3 Internal Standard/Surrogate Mix</b>							
2000 µg/mL each in P&T methanol, 1 mL/ampul	Yes	6 months	60 months	Ambient	0 °C or colder	ea.	30017
<b>524.3 Surrogate Standard</b>							
2000 µg/mL each in P&T methanol, 1 mL/ampul	Yes	6 months	60 months	Ambient	0 °C or colder	ea.	30016
<b>524.3 VOA MegaMix</b>							
2000 µg/mL each in P&T methanol, 1 mL/ampul	Yes	6 months	36 months	Ambient	0 °C or colder	ea.	30013

Gas calibration and internal standards are also available at [www.restek.com](http://www.restek.com)

## Rtx-VMS Columns (fused silica)

proprietary Crossbond phase

- Application-specific columns for analyzing volatile organic pollutants by GC-MS including Methods TO-15, TMS, and EPA 8260.
- Complete separation of U.S. EPA Method 8260 compounds in less than 10 minutes.
- Stable to 260 °C.
- No known equivalent phases.

ID	df	Length	Temp. Limits	qty.	Similar to Part #	cat.#
0.25 mm	1.40 µm	30 m	-40 to 240/260 °C	ea.	Agilent 122-1534	19915
	1.40 µm	60 m	-40 to 240/260 °C	ea.	Agilent 122-1564	19916



## Parker Nitrogen Gas Generators

- Produces ultra-pure nitrogen (up to 99.9999%).
- Requires only a compressed air source and 120 volt AC power.
- Typical applications include GC carrier gas, make-up gas, and low-flow sample concentrators.
- Maintenance kits include replacement filters.
- 12-month warranty from date of purchase.

Description	Model #	Certification/Compliance	qty.	cat.#
Nitrogen Generator	UHPN2-1100 (ultra-high purity zero grade)	CE	ea.	20697



20697

## ordering notes

International power cords are available. Contact Customer Service to order.

## Parker Annual Maintenance Kits for Nitrogen Gas Generators

Description	Model #	Includes	Vendor cat.#	qty.	cat.#
Annual Maintenance Kit	for UHPN2-1100, 76-94, 76-96	1st, 2nd, and 3rd stage prefilters (1 ea.), and final filter (1)	MK7694	kit	21655
	for HPN2-1100, 76-92	1st and 2nd stage prefilters (1 ea.) and, final filter (1)	MK7692	kit	21649



21655



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Lit. Cat.# EVSS1938A-UNV