

Method 8010 (Halogenated Volatile Organics)

Note:

Method 8010 does not specify internal standards to be used. The analyst must select appropriate internal standards based on the particular samples being analyzed. Potential internal standards are listed on page 456.

624 Internal Standard Mix

bromochloromethane	1,4-dichlorobutane
2-bromo-1-chloropropane	
1,500µg/mL each in P&T methanol, 1mL/ampul	
cat. # 30023 (ea.)	

502.2 Calibration Mix #1 (gases)

bromomethane	trichlorofluoromethane
chloroethane	(CFC-11)
chloromethane	vinyl chloride
dichlorodifluoromethane	
(CFC-12)	

200µg/mL each in P&T methanol, 1mL/ampul
cat. # 30439 (ea.)

2,000µg/mL each in P&T methanol, 1mL/ampul
cat. # 30042 (ea.)

8010A Calibration Mix #2 (15 components)

benzyl chloride	<i>trans</i> -1,2-dichloroethene
bromodichloromethane	<i>cis</i> -1,3-dichloropropene
bromoform	<i>trans</i> -1,3-dichloropropene
carbon tetrachloride	methylene chloride
chlorobenzene	tetrachloroethene
1,2-dichlorobenzene	trichloroethene
1,3-dichlorobenzene	1,2,3-trichloropropane
1,1-dichloroethene	

2,000µg/mL each in P&T methanol, 1mL/ampul
cat. # 30056 (ea.)

8010A Calibration Mix #3 (13 components)

bromobenzene	1,2-dichloroethane
2-chloroethyl vinyl ether	1,2-dichloropropane
chloroform	1,1,1,2-tetrachloroethane
dibromochloromethane	1,1,2,2-tetrachloroethane
dibromomethane	1,1,1-trichloroethane
1,4-dichlorobenzene	1,1,2-trichloroethane
1,1-dichloroethane	

2,000µg/mL each in P&T methanol, 1mL/ampul
cat. # 30057 (ea.)

8010B Calibration Mix #4

allyl chloride	1,2-dibromoethane
1-chlorohexane	<i>cis</i> -1,4-dichloro-2-butene
4-chlorotoluene	<i>trans</i> -1,4-dichloro-2-butene
1,2-dibromo-3-chloropropane	

2,000µg/mL each in P&T methanol, 1mL/ampul
cat. # 30058 (ea.)

BTEX Standard

benzene	<i>m</i> -xylene
ethylbenzene	<i>o</i> -xylene
toluene	<i>p</i> -xylene

200µg/mL each in P&T methanol, 1mL/ampul
cat. # 30051 (ea.)

2,000µg/mL each in P&T methanol, 1mL/ampul
cat. # 30213 (ea.)

2,000µg/mL each in P&T methanol, (*m*-xylene and *p*-xylene at 1,000µg/mL), 1mL/ampul
cat. # 30488 (ea.)

Method 8010 (Halogenated Volatile Organics) *cont'd*

BTEX Gas Mix

Cylinder Construction: aluminum
Cylinder Fitting: CGA-180 outlet

benzene	<i>m</i> -xylene
ethylbenzene	<i>o</i> -xylene
toluene	<i>p</i> -xylene

In nitrogen, 104 liters @ 1,800psi

1ppm cat. # 34414 (ea.)

100ppb cat. # 34428 (ea.)

In nitrogen, 110 liters @ 1,800psi (Pi-marked Cylinder)

1ppm cat. # 34414-PI (ea.)

100ppb cat. # 34428-PI (ea.)

Requires a high-purity VOC single-stage regulator. See page 415.
No data pack available.

Method 8011 (1,2-Dibromoethane, 1,2-Dibromo-3-chloropropane)

8011 Calibration Mix—EDB/DBCP

1,2-dibromo-3-chloropropane (DBCP)
1,2-dibromoethane (EDB)

2,000µg/mL each in P&T methanol, 1mL/ampul
cat. # 30062 (ea.)

Method 8020 (Aromatic Volatile Organics)

Internal and Surrogate Standards

Compound	cat.# (ea.)
2,000µg/mL in P&T methanol, 1mL/ampul	
α,α,α -trifluorotoluene	30048
4-bromofluorobenzene	30026
1,4-difluorobenzene	30032
fluorobenzene	30030

8020A Calibration Mix (10 components)

benzene	ethylbenzene
chlorobenzene	toluene
1,2-dichlorobenzene	<i>m</i> -xylene
1,3-dichlorobenzene	<i>o</i> -xylene
1,4-dichlorobenzene	<i>p</i> -xylene

2,000µg/mL each in P&T methanol, 1mL/ampul
cat. # 30222 (ea.)

Method 8021 (Volatile Organics)

502.2 Internal Standard Mix #2

2-bromo-1-chloropropane fluorobenzene
2,000µg/mL each in P&T methanol, 1mL/ampul
cat. # 30041 (ea.)

8021 Surrogate Mix

2-bromochlorobenzene 1,4-dichlorobutane
1,500µg/mL each in P&T methanol, 1mL/ampul
cat. # 30086 (ea.)

did you know?

Restek reference materials include a silanized vial for sample transfer.

tech tip

To analyze compounds listed in Methods 8010 and 8020 concurrently, add BTEX Standard to the calibration curve mix (see bottom of first column on this page).