Environmental Air Sampling Gas Standards

Our high-quality air sampling gas calibration standards are provided by Spectra/Linde and Scott/Air Liquide—meeting lab requirements for two separate sources of calibration standards. Each comes with a certificate of analysis and unique serial number. All cylinders are disposable and do not require rental or demurrage fees. Recertification of cylinders is available directly with our suppliers. All cylinders are drop-shipped from our suppliers to provide fast delivery and the "freshest" standard possible. Minimum 12-month stability on all cylinders.

TO-14A Internal Standard Mix (3 components)

Bromochloromethane
Chlorobenzene-d5
1,4-Difluorobenzene

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34412 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26352 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34412-PI (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psi
cat.# 34427 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26353 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34427-PI (ea.)

No data pack available.

TO-14A Internal Standard/Tuning Mix (4 components)

Bromochloromethane
1-Bromo-4-fluorobenzene (4-Bromofluorobenzene)
Chlorobenzene-d5
1,4-Difluorobenzene

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34408 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26354 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34408-PI (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psi
cat.# 34425 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26355 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34425-PI (ea.)

No data pack available.

TO-14A GC-MS Tuning Mix

4-Bromofluorobenzene

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34406 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26346 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34406-PI (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psi
cat.# 34424 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26347 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34424-PI (ea.)

No data p

TO-14A Aromatics Mix (14 components)

Benzene
Chlorobenzene
m-Dichlorobenzene
o-Dichlorobenzene
p-Dichlorobenzene
Ethyl benzene
Styrene
Toluene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
m-Xylene
o-Xylene
p-Xylene

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34404 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26348 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34404-PI (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psi
cat.# 34423 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26349 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34423-PI (ea.)

No data pack available.

TO-14A Chlorinated Hydrocarbon Mix (19 components)

Carbon tetrachloride
Chloroform
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethylene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Ethyl chloride
Hexachloro-1,3-butadiene
Methyl chloride
Methylene chloride
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Vinyl chloride

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34402 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26350 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34402-PI (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psi
cat.# 34422 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26351 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34422-PI (ea.)

No data pack available.

See pages 452–453 for cylinder and regulator information.

please note

Gas Calibration Standards

TO-14A CFC/HCFC Mix (4 components)

Trichlorofluoromethane (Freon 11)
Dichlorodifluoromethane (Freon 12)
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)
1,2-Dichlorotetrafluoroethane (Freon 114)

1 ppm in nitrogen, 104 liters @ 1,800 psig
cat.# 34410 (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psig
cat.# 34426 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34410-PI (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26356 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34426-PI (ea.)

No data pack available.

TO-14A Calibration Mix (39 components)

Benzene
Bromomethane
Carbon tetrachloride
Chlorobenzene
Chloroform
Chloromethane
1,2-Dibromoethane
m-Dichlorobenzene
o-Dichlorobenzene
p-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Dichlorotetrafluoroethane
Ethyl benzene
Ethyl chloride
Hexachloro-1,3-butadiene
Methylene chloride
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
Toluene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,1,2-Trichlorotrifluoroethane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Vinyl chloride
m-Xylene
o-Xylene
p-Xylene

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34400 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26340 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34400-PI (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psi
cat.# 34421 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26341 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34421-PI (ea.)

No data pack available.

TO-14A 41 Component Mix (41 components)

Acrylonitrile
Benzene
Bromomethane
1,3-Butadiene
Carbon tetrachloride
Chlorobenzene
Chloroform
Chloromethane
1,2-Dibromoethane
m-Dichlorobenzene
o-Dichlorobenzene
p-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Dichlorotetrafluoroethane
Ethyl benzene
Ethyl chloride
Hexachloro-1,3-butadiene
Methylene chloride
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
Toluene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,1,2-Trichlorotrifluoroethane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Vinyl chloride
m-Xylene
o-Xylene
p-Xylene

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34430 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26342 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34430-PI (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psi
cat.# 34431 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26343 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34431-PI (ea.)

No data pack available.

2nd Source TO-14A/TO-15 Gas Calibration Standards

- Standards from TWO manufacturers provide second source on one order.
- 12-month stability in transportable cylinders.
- Drop-shipped for fast delivery and maximum shelf life.

A. Spectra (Linde) 104 L Cylinders
B. Scotty (Air Liquide) 110 L Cylinders
C. Scotty (Air Liquide)110 L Cylinders
(Pi-marked Cylinders for EU Regulations)

See pages 452–453 for cylinder and regulator information.

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please note

Gas standards are subject to hazardous materials shipping fees by most freight carriers. All calibration gas standards are nonreturnable due to DOT hazardous shipping requirements.

TO-14A 43 Component Mix (43 components)

Acrylonitrile
Benzene
Bromomethane
1,3-Butadiene
Carbon tetrachloride
Chlorobenzene
Chloroform
Chloromethane
3-Chloropropene
1,2-Dibromoethane
m-Dichlorobenzene
o-Dichlorobenzene
p-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Dichlorotetrafluoroethane
Ethyl benzene
Ethyl chloride
4-Ethyltoluene
Hexachloro-1,3-butadiene
Methylene chloride
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
Toluene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,1,2-Trichlorotrifluoroethane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Vinyl chloride
m-Xylene
o-Xylene
p-Xylene

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34432 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26344 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34432-PI (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psi
cat.# 34433 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26345 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34433-PI (ea.)

No data pack available.

TO-15 Subset 25 Component Mix (25 components)

Acetone
Allyl chloride
Benzyl chloride*
Bromodichloromethane
Bromoform
1,3-Butadiene
2-Butanone (MEK)
Carbon disulfide*
Cyclohexane
Dibromochloromethane
trans-1,2-Dichloroethene
1,4-Dioxane
Ethyl acetate
4-Ethyltoluene
Heptane
Hexane
2-Hexanone (MBK)
4-Methyl-2-pentanone
Methyl *tert*-butyl ether (MTBE)
2-Propanol
Propylene
Tetrahydrofuran
2,2,4-Trimethylpentane
Vinyl acetate
Vinyl bromide

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34434 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26357 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34434-PI (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psi
cat.# 34435 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26358 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34435-PI (ea.)

*Stability of this compound cannot be guaranteed.
No data pack available.

TO-15 65 Component Mix (65 components)

Acetone
Acrolein
Benzene
Benzyl chloride*
Bromodichloromethane
Bromoform
Bromomethane
1,3-Butadiene
2-Butanone (MEK)
Carbon disulfide*
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
Cyclohexane
Dibromochloromethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
1,4-Dioxane
Ethanol*
Ethyl acetate
Ethyl benzene
Ethylene dibromide (1,2-dibromoethane)
4-Ethyltoluene
Trichlorofluoromethane (Freon 11)
Dichlorodifluoromethane (Freon 12)
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)
1,2-Dichlorotetrafluoroethane (Freon 114)
Heptane
Hexachloro-1,3-butadiene
Hexane
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Methylene chloride
Methyl *tert*-butyl ether (MTBE)
Methyl methacrylate
Naphthalene
2-Propanol
Propylene
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethene
Tetrahydrofuran
Toluene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Vinyl acetate
Vinyl chloride
m-Xylene
o-Xylene
p-Xylene

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34436 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26359 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34436-PI (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26360 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34437-PI (ea.)

*Stability of this compound cannot be guaranteed.
No data pack available.

Gas Calibration Standards

75 Comp TO15 + NJ Mix

(75 components)

Acetone
Acrolein
Benzene
Benzyl chloride*
Bromodichloromethane
Bromoform
Bromomethane
1,3-Butadiene
n-Butane
2-Butanone (MEK)
tert-Butyl alcohol
Carbon disulfide*
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
3-Chloroprene
2-Chlorotoluene
Cumene
Cyclohexane
Dibromochloromethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
1,4-Dioxane
Ethanol*
Ethyl acetate
Ethyl benzene
Ethylene dibromide (1,2-dibromoethane)
4-Ethyltoluene
Trichlorofluoromethane (Freon 11)
Dichlorodifluoromethane (Freon 12)
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)
1,2-Dichlorotetrafluoroethane (Freon 114)
Heptane
Hexachloro-1,3-butadiene
Hexane
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Methylene chloride
Methyl *tert*-butyl ether (MTBE)
Methyl methacrylate
Naphthalene
n-Nonane
n-Pentane
2-Propanol
n-Propylbenzene
Propylene
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethene
Tetrahydrofuran
Toluene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2,2,4-Trimethylpentane
Vinyl acetate
Vinyl bromide
Vinyl chloride
m-Xylene
o-Xylene
p-Xylene

NEW!

1 ppm in nitrogen, 104 liters @ 1,800 psig
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34396 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psig
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34392 (ea.)

100 ppb in nitrogen, 110 liters @ 1800 psig
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34393 (ea.)

*Stability of this compound cannot be guaranteed.
No data pack available.

10 Comp NJ Subset Test Mix (10 components)

n-Butane
tert-Butyl alcohol
3-Chloroprene
2-Chlorotoluene
Cumene
n-Nonane
n-Pentane
n-Propylbenzene
2,2,4-Trimethylpentane
Vinyl bromide

NEW!

1 ppm in nitrogen, 104 liters @ 1,800 psig
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34398 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psig
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34394 (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psig
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34399 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psig
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34395 (ea.)

No data pack available.

74 Comp TO15 + NJ Mix, (no Acrolein)

(74 components)

Acetone
Benzene
Benzyl chloride*
Bromodichloromethane
Bromoform
Bromomethane
1,3-Butadiene
n-Butane
2-Butanone (MEK)
tert-Butyl alcohol
Carbon disulfide*
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
3-Chloroprene
2-Chlorotoluene
Cumene
Cyclohexane
Dibromochloromethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
1,4-Dioxane
Ethanol*
Ethyl acetate
Ethyl benzene
Ethylene dibromide (1,2-dibromoethane)
4-Ethyltoluene
Trichlorofluoromethane (Freon 11)
Dichlorodifluoromethane (Freon 12)
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)
1,2-Dichlorotetrafluoroethane (Freon 114)
Heptane
Hexachloro-1,3-butadiene
Hexane
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Methylene chloride
Methyl *tert*-butyl ether (MTBE)
Methyl methacrylate
Naphthalene
n-Nonane
n-Pentane
2-Propanol
n-Propylbenzene
Propylene
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethene
Tetrahydrofuran
Toluene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2,2,4-Trimethylpentane
Vinyl acetate
Vinyl bromide
Vinyl chloride
m-Xylene
o-Xylene
p-Xylene

NEW!

100 ppb in nitrogen, 104 liters @ 1,800 psig
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34397 (ea.)

*Stability of this compound cannot be guaranteed.
No data pack available.

2nd Source TO-14A/TO-15 Gas Calibration Standards

- Standards from TWO manufacturers provide second source on one order.
- 12-month stability in transportable cylinders.
- Drop-shipped for fast delivery and maximum shelf life.

A. Spectra (Linde) 104 L Cylinders
B. Scotty (Air Liquide) 110 L Cylinders
C. Scotty (Air Liquide)110 L Cylinders
(Pi-marked Cylinders for EU Regulations)

See pages 452–453 for cylinder and regulator information.

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Massachusetts APH Mix (26 components)

Benzene
1,3-Butadiene
Butylcyclohexane
Cyclohexane
n-Decane
2,3-Dimethylheptane
2,3-Dimethylpentane
n-Dodecane
Ethylbenzene
n-Heptane
n-Hexane
Isopentane
Isopropylbenzene
p-Isopropyltoluene
Methyl *tert*-butyl ether
1-Methyl-3-ethylbenzene
Naphthalene
n-Nonane
n-Octane
Toluene
1,2,3-Trimethylbenzene
1,3,5-Trimethylbenzene
n-Undecane
o-Xylene
m/*p*-Xylene (combined)

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34540 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26366 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psig (Pi-marked cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34540-PI (ea.)

No data pack available.

See pages 452–453 for cylinder and regulator information.

Ozone Precursor Mixture/PAMS (57 components)

Acetylene
Benzene
n-Butane
1-Butene
cis-2-Butene
trans-2-Butene
Cyclohexane
Cyclopentane
n-Decane
m-Diethylbenzene
p-Diethylbenzene
2,2-Dimethylbutane
2,3-Dimethylbutane
2,3-Dimethylpentane
2,4-Dimethylpentane
n-Dodecane
Ethane
Ethylbenzene
Ethylene
m-Ethyltoluene
o-Ethyltoluene
p-Ethyltoluene
n-Heptane
n-Hexane
1-Hexene
Isobutane
Isopentane
Isoprene
Isopropylbenzene
Methylcyclohexane
Methylcyclopentane
2-Methylheptane
3-Methylheptane
2-Methylhexane
3-Methylhexane
2-Methylpentane
3-Methylpentane
n-Nonane
n-Octane
n-Pentane
1-Pentene
cis-2-Pentene
trans-2-Pentene
Propane
n-Propylbenzene
Propylene
Styrene
Toluene
1,2,3-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2,2,4-Trimethylpentane
2,3,4-Trimethylpentane
n-Undecane
o-Xylene
m/*p*-Xylene (combined)

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34420 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26368 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34420-PI (ea.)

100 ppb in nitrogen, 104 liters @ 1,800 psi
cat.# 34429 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26369 (ea.)

100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34429-PI (ea.)

No data pack available.

Japan Calibration Mix (9 components)

Acrylonitrile
Benzene
1,3-Butadiene
Chloroform
1,2-Dichloroethane
Dichloromethane
Tetrachloroethylene
Trichloroethylene
Vinyl chloride

1 ppm in nitrogen, 104 liters @ 1,800 psi
cat.# 34418 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 26367 (ea.)

1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked cylinder)
Blend tolerance: ±10%; Analytical accuracy: ±5%
cat.# 34418-PI (ea.)

No data pack available.

Ozone Precursor/PAMS Mix

(57 components at EPA concentrations: ppbC)

Acetylene	40	Isopropylbenzene	40
Benzene	30	Methylcyclohexane	30
n-Butane	40	Methylcyclopentane	25
1-Butene	30	2-Methylheptane	25
cis-2-Butene	35	3-Methylheptane	25
trans-2-Butene	25	2-Methylhexane	25
Cyclohexane	40	3-Methylhexane	25
Cyclopentane	20	2-Methylpentane	20
n-Decane	30	3-Methylpentane	40
m-Diethylbenzene	40	*n*-Nonane	25
p-Diethylbenzene	25	*n*-Octane	30
2,2-Dimethylbutane	40	*n*-Pentane	25
2,3-Dimethylbutane	50	1-Pentene	25
2,3-Dimethylpentane	50	*cis*-2-Pentene	35
2,4-Dimethylpentane	40	*trans*-2-Pentene	25
n-Dodecane	40	Propane	40
Ethane	25	*n*-Propylbenzene	30
Ethylbenzene	25	Propylene	25
Ethylene	20	Styrene	40
m-Ethyltoluene	25	Toluene	40
o-Ethyltoluene	30	1,2,3-Trimethylbenzene	25
p-Ethyltoluene	40	1,2,4-Trimethylbenzene	40
n-Heptane	25	1,3,5-Trimethylbenzene	25
n-Hexane	30	2,2,4-Trimethylpentane	30
1-Hexene	60	2,3,4-Trimethylpentane	25
Isobutane	25	*n*-Undecane	30
Isopentane	40	*o*-Xylene	25
Isoprene	40	*m*/*p*-Xylene (combined)	40

20-60 ppbC (parts per billion expressed as carbon) in nitrogen, 104 liters @ 1,800 psi
cat.# 34445 (ea.)

20-60 ppbC (parts per billion expressed as carbon) in nitrogen, 110 liters @ 1,800 psi
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 26370 (ea.)

20-60 ppbC (parts per billion expressed as carbon) in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder)
Blend tolerance: ±20%; Analytical accuracy: ±10%
cat.# 34445-PI (ea.)

No data pack available.

please note

Gas standards are subject to hazardous materials shipping fees by most freight carriers. All calibration gas standards are nonreturnable due to DOT hazardous shipping requirements.

Gas Calibration Standards

Sulfur 5-Component Mix (5 components)

Stability is 12 months from date of manufacture. +/– 10% accuracy.

Carbonyl sulfide
Dimethyl sulfide
Ethyl mercaptan
Hydrogen sulfide
Methyl mercaptan

1 ppm in nitrogen, 110 liters @ 1,800 psi cat.# 34561 (ea.)
1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder) Blend tolerance: ±10%; Analytical accuracy: ±5% cat.# 34561-PI (ea.)

BTEX Gas Mix (6 components)

Benzene (71-43-2)
Ethylbenzene (100-41-4)
Toluene (108-88-3)
m-Xylene (108-38-3)
o-Xylene (95-47-6)
p-Xylene (106-42-3)

1 ppm in nitrogen, 104 liters @ 1,800 psi cat.# 34414 (ea.)
1 ppm in nitrogen, 110 liters @ 1,800 psi cat.# 26361 (ea.)
1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked cylinder) Blend tolerance: ±10%; Analytical accuracy: ±5% cat.# 34414-PI (ea.)
100 ppb in nitrogen, 104 liters @ 1,800 psi cat.# 34428 (ea.)
100 ppb in nitrogen, 110 liters @ 1,800 psi Blend tolerance: ±20%; Analytical accuracy: ±10% cat.# 26362 (ea.)
100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked cylinder) Blend tolerance: ±20%; Analytical accuracy: ±10% cat.# 34428-PI (ea.)

No data pack available.

BTEX and MTBE Gas Mix (7 components)

Benzene
Ethylbenzene
Methyl *tert*-butyl ether (MTBE)
Toluene
m-Xylene
o-Xylene
p-Xylene

1 ppm in nitrogen, 104 liters @ 1,800 psi cat.# 34541 (ea.)
1 ppm in nitrogen, 110 liters @ 1,800 psi Blend tolerance: ±10%; Analytical accuracy: ±5% cat.# 26363 (ea.)
1 ppm in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder) Blend tolerance: ±20%; Analytical accuracy: ±10% cat.# 34541-PI (ea.)
100 ppb in nitrogen, 104 liters @ 1,800 psi cat.# 34542 (ea.)
100 ppb in nitrogen, 110 liters @ 1,800 psi Blend tolerance: ±20%; Analytical accuracy: ±10% cat.# 26364 (ea.)
100 ppb in nitrogen, 110 liters @ 1,800 psi (Pi-marked Cylinder) Blend tolerance: ±10%; Analytical accuracy: ±5% cat.# 34542-PI (ea.)

No data pack available.

2nd Source TO-14A/TO-15 Gas Calibration Standards

- Standards from TWO manufacturers provide second source on one order.
- 12-month stability in transportable cylinders.
- Drop-shipped for fast delivery and maximum shelf life.

A. Spectra (Linde) 104 L Cylinders
B. Scotty (Air Liquide) 110 L Cylinders
C. Scotty (Air Liquide)110 L Cylinders
(Pi-marked Cylinders for EU Regulations)

See pages 452–453 for cylinder and regulator information.

www.restek.com/air

Reference Standards Search

Search by compound name, synonym, or CAS #.

www.restek.com/**reference**

Natural Gas and Refinery Gas Standards

- Each available in three varying concentrations.
- Mini-regulator designed specially for these standards.

Natural Gas Standards

Available in three mixes, from lean to rich. Each has an extended list of C6+ components.

	Natural Gas Standard #1 cat.# 34438, ea. % each compound*	Natural Gas Standard #2 cat.# 34439, ea. % each compound*	Natural Gas Standard #3 cat.# 34440, ea. % each compound*
nitrogen	1.000	2.500	5.000
carbon dioxide	0.500	1.000	1.500
methane UHP	94.750	85.250	70.000
ethane UHP	2.000	5.000	9.000
propane	0.750	3.000	6.000
isobutane	0.300	1.000	3.000
n-butane	0.300	1.000	3.000
isopentane	0.150	0.500	1.000
n-pentane	0.150	0.500	1.000
hexanes plus	0.100	0.250	0.500
Concentration	mole	mole	mole
Volume	13.16 L @ 200 psig (1,379 kPa)	13.16 L @ 200 psig (1,379 kPa)	5.5 L @ 75 psig (517 kPa)
Ideal Heating Value (Dry BTU/SCF)	1,048 gross	1,142 gross	1,317 gross

Ideal Heating Value: Dry BTU/SCF @ 14.696 psia & 60 °F.

*Precise concentrations are provided on the data sheet included with each cylinder and may vary slightly from those listed here.

Refinery Gas Standards

Available in three mixes with varying C5 unsaturates or extended C6+ components.

	Refinery Gas Standard #1 cat.# 34441, ea. % each compound*	Refinery Gas Standard #2 cat.# 34442, ea. % each compound*	Refinery Gas Standard #5 cat.# 34443, ea. % each compound*
hydrogen	40.750	12.500	12.500
argon	0.500	1.000	1.000
nitrogen	4.000	37.200	37.200
carbon monoxide	1.000	1.000	1.000
carbon dioxide	3.000	3.000	3.000
methane	8.500	5.000	5.000
ethane	6.000	4.000	4.000
ethylene	2.000	2.000	2.000
acetylene	—	1.000	1.000
propane	7.000	6.000	6.000
propylene	3.000	3.000	3.000
propadiene	0.850	1.000	1.000
cyclopropane	—	0.040	—
isobutane	6.000	5.000	5.000
n-butane	4.000	4.000	4.000
isobutylene	2.000	1.000	1.000
1,3 butadiene	3.000	3.000	3.000
cis-2-butene	2.000	2.000	2.000
trans-2-butene	2.000	3.000	3.000
1-butene	2.000	2.000	2.000
2-methyl-2-butene	—	0.200	0.200
isopentane	1.000	1.000	1.000
n-pentane	1.000	1.000	1.000
cis-2-pentene	—	0.400	0.400
trans-2-pentene	—	0.160	0.200
pentene-1	—	0.400	0.400
n-hexane	0.500	0.100	—
hexanes plus	—	—	0.100
Concentration	mole	mole	mole
Volume	5.2 L @ 70 psig (483 kPa)	4.9 L @ 60 psig (414 kPa)	4.6 L @ 60 psig (414 kPa)

*Precise concentrations are provided on the data sheet included with each cylinder and may vary slightly from those liste

please note

Gas standards on this page are not available in Pi-marked cylinders for EU countries.

cylinder design

DCG Partnership Cylinders:

Size: 7.6 x 24 cm
Connection: CGA-170/110
U.S. DOT Specs: DOT-4B-240ET

Please note: This cylinder is not approved for use in Canada.

also available

See **page 453** for regulators.

Gas Calibration Standards

Scott/Air Liquide Transportable Pure Gases and Mixtures

in 14 L, 48 L, and 110 L Sizes

We offer a wide range of Scott/Air Liquide transportable gases, from pure gases for purging or calibrating to multicomponent mixes, which are ideal for peak identification work.

The 14 L container has a CGA 160 connection for more precise integration with analytical systems. The 48 L cylinder has a CGA 165 connection and can deliver large volumes of sample. The 110 L cylinder has a CGA 180 connection.

See **pages 452–453** for cylinder and regulator information.

NOTE: Scotty 14 and Scotty 48 cylinders are not approved for use in Canada.

Description	Product Grade	Shelf Life	Scotty 14 (14 L) cat.#	Scotty 48 (48 L) cat.#	Scotty 110 (110 L) cat.#
Pure Gases					
Air, zero	THC < 1 ppm	—	34448	34449	34449-PI
Argon	99.995%	—	34457	—	34457-PI
Carbon dioxide	99.80%	—	34451	34452	34452-PI
Hydrogen	99.99%	—	34453	—	34453-PI
Methane	99.00%	—	34454	—	34454-PI
Oxygen	99.60%	—	34455	—	—
Two-Component Mixtures					
Benzene in air (1 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	—	34458	34458-PI
Benzene in air (100 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	—	34459	34459-PI
1,3-Butadiene in nitrogen (10 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34460	34461	34461-PI
Carbon dioxide in helium (100 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34462	—	34462-PI
Carbon dioxide in nitrogen (100 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34463	34464	34464-PI
Carbon dioxide in nitrogen (1,000 ppm)	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34465	34466	34466-PI
Ethylene in air (8–10 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34467	34468	34468-PI
Ethylene in helium (100 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34489	—	34489-PI
Hydrogen in helium (100 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34469	—	34469-PI
Hydrogen in nitrogen (1%)	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34471	34472	34472-PI
Hydrogen in nitrogen (100 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34473	34474	34474-PI
Methane in helium (100 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34476	34477	34477-PI
Methane in nitrogen (100 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34478	—	34478-PI
Methane in nitrogen (1%)	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34482	34483	34483-PI
Nitrogen in helium (100 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34479	—	34479-PI
Nitrous oxide in nitrogen (1 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34484	34485	34485-PI

Description	Product Grade	Shelf Life	Scotty 14 (14 L) cat.#	Scotty 48 (48 L) cat.#	Scotty 110 (110 L) cat.#
Two-Component Mixtures					
Oxygen in helium (100 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34480	—	34480-PI
Oxygen in nitrogen (2%)	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34487	34488	34488-PI
Oxygen in nitrogen (6%)	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34491	34492	34492-PI
1,1,1-Trichloroethane in nitrogen (10 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	—	34493	34493-PI
Trichloroethylene in nitrogen (10 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34494	34495	34495-PI
Vinyl chloride in nitrogen (1 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34496	34497	34497-PI
Vinyl chloride in nitrogen (10 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34498	34499	34499-PI
Vinyl chloride in nitrogen (50 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34500	—	34500-PI
Vinyl chloride in nitrogen (100 ppm)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34501	—	34501-PI
Vinyl chloride in nitrogen (1,000 ppm)	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34502	—	34502-PI
Multi-Component Mixtures					
Carbon monoxide, carbon dioxide, hydrogen, and oxygen in nitrogen (0.5% each)	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34504	34505	34505-PI
Carbon monoxide, carbon dioxide, hydrogen, and oxygen in nitrogen (1% each)	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34507	34508	34508-PI
Carbon monoxide, carbon dioxide, methane, ethane, ethylene, and acetylene in nitrogen (1% each)	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	—	34511	34511-PI
Carbon monoxide, carbon dioxide, nitrogen, and oxygen (5% each), and methane and hydrogen (4% each) in helium	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34512	—	34512-PI*
Carbon monoxide (7%), carbon dioxide (15%), and oxygen (5%) in nitrogen	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34514	—	34514-PI
Carbon monoxide (7%), oxygen (4%), carbon dioxide (15%), and methane (4.5%) in nitrogen	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34515	34516	34516-PI
C1–C6 *n*-Paraffins: methane, ethane, propane, butane, pentane, hexane in nitrogen (15 ppm each)	Blend tolerance: ±20%; Analytical accuracy: ±10%	3 yr	34518	34519	34519-PI
C1–C6 *n*-Paraffins: methane, ethane, propane, butane, pentane, hexane in helium (100 ppm each)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34521	34522	34522-PI
C1–C6 *n*-Paraffins: methane, ethane, propane, butane, pentane, hexane in helium (1,000 ppm each)	Blend tolerance: ±5%; Analytical accuracy: ±2%	3 yr	34524	34525	34525-PI
C1–C6 *n*-Paraffins: methane, ethane, propane, butane, pentane, hexane in nitrogen (100 ppm each)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34527	34528	34528-PI
C2–C6 Olefins: ethylene, propylene, 1-butene, 1-pentene, 1-hexene in helium (100 ppm each)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34529	34530	34530-PI
C2–C6 Olefins: ethylene, propylene, 1-butene, 1-pentene, 1-hexene in nitrogen (100 ppm each)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	34531	34532	34532-PI
Branched Paraffins: 2,2-dimethylbutane, 2,2-dimethylpropane, isobutane, 2-methylbutane, 2-methylpentane, 3-methylpentane in nitrogen (15 ppm each)	Blend tolerance: ±20%; Analytical accuracy: ±10%	3 yr	34534	—	34534-PI
Methane, ethane, ethylene, acetylene, propane, propylene, *n*-butane, propyne in nitrogen (15 ppm each)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	—	34537	34537-PI
n-butane, isobutane, *cis*-2-butene, *trans*-2-butene, 1-butene, iso-butylene, 1,3-butadiene, ethyl acetylene in nitrogen (15 ppm each)	Blend tolerance: ±10%; Analytical accuracy: ±5%	3 yr	—	34539	34539-PI

*Cat.# 34512-PI is 30 L at 500 psig (34.5 bar).

Our Pi-marked gas standards from Scott/Air Liquide meet the requirements of the Transportable Pressure Equipment Directive (TPED) implemented in 2001 that regulates the safe transport of pressurized containers used throughout the European community.

All calibration gas standards are nonreturnable due to DOT hazardous shipping requirements.

Gas Calibration Standards

DCG Partnership Cylinders:
Size: 7.6 x 24 cm
Connection: CGA-170/110
U.S. DOT Specs: DOT-4B-240ET

Please note: This cylinder is not approved for use in Canada.

Recommended regulator:
cat.# 22032

Scotty® (Air Liquide) 110 L
(Pi-marked Cylinders for EU Regulations):
Aluminum construction
Size: 8.3 x 29.5 cm
Volume/Pressure:
110 liters of gas @ 1,800 psi
Outlet Fitting: CGA-180
Weight: 2.2 lb/1 kg
DOT Specifications: 3AL2216

Recommended regulators:
cat.# 26371, 26372, 21572, or 21572-R100

Spectra (Linde) 104 L:
Aluminum construction
Size: 8 x 24 cm
Volume/Pressure:
104 liters of gas
@ 1,800 psi
Outlet Fitting: CGA-180
Weight: 1.5 lb/0.7 kg

Recommended regulators:
cat.# 21572, 21572-R100, 26371, or 26372

Scotty® (Air Liquide) 110 L
Aluminum construction
Size: 8.3 x 29.5 cm
Volume/Pressure:
110 liters of gas @ 1,800 psi
Outlet Fitting: CGA-180
Weight: 2.2 lb/1 kg
DOT Specifications: 3AL2216

Recommended regulators:
cat.# 26371, 26372, 21572, or 21572-R100

Scotty® (Air Liquide) 14 L
Contents: 14 liters
Pressure: 240 psig (17 bar)
Outlet Fitting: CGA-160
Weight: 1.5 lb/0.7 kg
Dimensions: 3" diameter x
11" height (7.6 x 28 cm)
DOT Specifications: 4B240

Please note: This cylinder is not approved for use in Canada.

Recommended regulators:
cat.# 22690

Scotty® (Air Liquide) 48 L
Contents: 48 liters
Pressure: 300 psig (21 bar)
Outlet Fitting: CGA-165
Weight: 1.75 lb/0.8 kg
Dimensions: 4" diameter x
16 1/4" height (10.2 x 41 cm)
DOT Specifications: 39 NRC

Please note: This cylinder is not approved for use in Canada.

Recommended regulators:
cat.# 22691

Small Cylinder Stand

- Supports and stabilizes disposable gas cylinders.
- Fits cylinders up to 3 3/8" (8 cm) in diameter.
- Adjustable screw secures cylinder in place.

This cylinder stand is designed to support small-diameter cylinders, such as 104 L and 110 L disposable cylinders. It is a simple, safe, and economical way to stabilize the position of small cylinders, while keeping them within close proximity. The stand is constructed of heavyweight painted steel and includes an adjustable screw for safely securing cylinders.

Description	qty.	cat.#
Small Cylinder Stand	ea.	24129