

New Method 524.3 Purgable Organic Compounds

For Drinking Water

The new EPA Method 524.3 for the Measurement of Purgeable Organic Compounds in Water includes 18 analytes added to the Method 502.2 base of 54 liquid plus 6 gas analytes. AccuStandard has introduced the first complete set of Certified Reference Standards for this new GC/MS method. The set of standards available includes the 18 component mix, the internal standard, the surrogate standard, and a combinations of both the internal and the surrogate standards.

Method 524.3 Purgeable Organic Compounds by GC/MS



EPA Method 524.3 Mix

M-524R-C 1 x 1 mL
M-524R-C-PAK 5 x 1 mL
2.0 mg/mL each in MeOH 18 comps.

1,3-Butadiene
1-Chlorobutane
Allyl chloride
Carbon disulfide
Chlorodifluoromethane
Diethyl ether
Diisopropyl ether
Ethyl methacrylate
Hexachloroethane
Methyl acetate
Methyl iodide
Methyl-t-butyl ether
Pentachloroethane
t-Amyl ethyl ether
t-Amyl methyl ether
t-Butyl alcohol
t-Butyl ethyl ether
Tetrahydrofuran

Internal and Surrogate Standard

M-524R-C-IS/SS 1 x 1 mL
M-524R-C-IS/SS-PAK 5 x 1 mL
2.0 mg/mL each in MeOH 6 comps.

1,4-Difluorobenzene
Chlorobenzene-d₅
1,4-Dichlorobenzene-d₄
tert-Butyl methyl ether-d₃
p-Bromofluorobenzene
1,2-Dichlorobenzene-d₄

Internal Standard

M-524R-C-IS 1 x 1 mL
M-524R-C-IS-PAK 5 x 1 mL
2.0 mg/mL each in MeOH 3 comps.

1,4-Difluorobenzene
Chlorobenzene-d₅
1,4-Dichlorobenzene-d₄

Surrogate Standard

M-524R-C-SS 1 x 1 mL
M-524R-C-SS-PAK 5 x 1 mL
2.0 mg/mL each in MeOH 3 comps.

tert-Butyl methyl ether-d₃
1,2-Dichlorobenzene-d₄
p-Bromofluorobenzene



Method 502.2 Volatile Organic Compounds by PID/ELCD

The following solutions represent a breakdown of Method 502 components into groups containing liquid and gaseous components:

54 Liquid Components

Benzene (01)	1,2-Dibromo-3-chloropropane (18)	1,1-Dichloropropene (33)	Toluene (46)
Bromobenzene (02)	1,2-Dibromoethane (19)	cis-1,3-Dichloropropene (34A) *	1,2,3-Trichlorobenzene (47)
Bromochloromethane (03)	Dibromomethane (20)	trans-1,3-Dichloropropene (34B) **	1,2,4-Trichlorobenzene (48)
Bromodichloromethane (04)	1,2-Dichlorobenzene (21)	Ethylbenzene (35)	1,1,1-Trichloroethane (49)
Bromoform (05)	1,3-Dichlorobenzene (22)	Hexachlorobutadiene (36)	1,1,2-Trichloroethane (50)
n-Butylbenzene (07)	1,4-Dichlorobenzene (23)	Isopropylbenzene (Cumene) (37)	Trichloroethene (51)
sec-Butylbenzene (08)	1,1-Dichloroethane (25)	p-Isopropyltoluene (p-Cymene) (38)	1,2,3-Trichloropropane (53)
tert-Butylbenzene (09)	1,2-Dichloroethane (26)	Methylene chloride (39)	1,2,4-Trimethylbenzene (54)
Carbon tetrachloride (10)	1,1-Dichloroethene (27)	Naphthalene (40)	1,3,5-Trimethylbenzene (55)
Chlorobenzene (11)	cis-1,2-Dichloroethene (28)	n-Propylbenzene (41)	o-Xylene (57)
Chloroform (13)	trans-1,2-Dichloroethene (29)	Styrene (42)	m-Xylene (58)
2-Chlorotoluene (15)	1,2-Dichloropropane (30)	1,1,1,2-Tetrachloroethane (43)	p-Xylene (59)
4-Chlorotoluene (16)	1,3-Dichloropropane (31)	1,1,2,2-Tetrachloroethane (44)	
Dibromochloromethane (17)	2,2-Dichloropropane (32)	Tetrachloroethene (45)	

6 Gas Components

Bromomethane (06)	Dichlorodifluoromethane (24)
Chloroethane (12)	Trichlorofluoromethane (52)
Chloromethane (14)	Vinyl chloride (56)

54 Liquid Components

M-502A-R	0.2 mg/mL each in MeOH		1 x 1 mL
M-502A-R-PAK	0.2 mg/mL each in MeOH	SAVE 20%	5 x 1 mL
M-502A-R-10X	2.0 mg/mL each in MeOH		1 x 1 mL
M-502A-R-10X-PAK	2.0 mg/mL each in MeOH	SAVE 20%	5 x 1 mL

6 Gas Components

M-502B	0.2 mg/mL each in MeOH		1 x 1 mL
M-502B-PAK	0.2 mg/mL each in MeOH	SAVE 20%	5 x 1 mL
M-502B-10X	2.0 mg/mL each in MeOH		1 x 1 mL
M-502B-10X-PAK	2.0 mg/mL each in MeOH	SAVE 20%	5 x 1 mL

Technical Note

Solutions containing volatile components (such as gases) should be chilled before opening to ensure gases are in the solution and not the headspace.

All 60 liquid & gas components in One Solution

Liquids (54 comps.) and Gases (6 comps.)			
M-502			1 x 1 mL
M-502-PAK		SAVE 20%	5 x 1 mL
0.2 mg/mL each in MeOH			60 comps.
M-502-10X			1 x 1 mL
M-502-10X-PAK		SAVE 20%	5 x 1 mL
2.0 mg/mL each in MeOH			60 comps.