

International Environmental Mixes



Tom Bloom
International Technical
Support Manager
18+ years of service!

Country/Miscellaneous	Compound Class
Canada: CCME	Alkanes; PAHs
Canada: Drinking Water	Volatiles; Pesticides
Canada: RBCA - Atlantic Provinces	Aromatics; Aliphatics; PAHs
European Union	Pesticides
Japan	Odor Compounds
Korea	Volatiles; Pesticides
ISO/DIS-9377 Water Quality Testing	Hydrocarbons

Canada

C50 in Toluene

n-pentacontane (C50)
10 µg/mL in toluene, 1 mL/ampul
cat. # 31685 (ea.)

CCME F1 Surrogate Standard

n-undecane (C11)
1,000 µg/mL in methylene chloride, 1 mL/ampul
cat. # 30612 (ea.)

CCME F2 Surrogate Standard

2-methylnonane
1,000 µg/mL in methylene chloride, 1 mL/ampul
cat. # 31870 (ea.)

CCME F1 Retention Time Marker

n-decane (C10) toluene
n-hexane (C6)
2,000 µg/mL each in methanol, 1 mL/ampul
cat. # 30611 (ea.)

CCME PAH Calibration Mix (10 components)

benzo(a)anthracene	fluoranthene
benzo(a)pyrene	indeno(1,2,3-cd)pyrene
benzo(b)fluoranthene	naphthalene
benzo(k)fluoranthene	phenanthrene
dibenzo(a,h)anthracene	pyrene

2,000 µg/mL each in methylene chloride, 1 mL/ampul
cat. # 31869 (ea.)

CCME PHC Calibration Mix

n-decane (C10) *n*-tetratriacontane (C34)
n-hexadecane (C16)
5,000 µg/mL each in toluene, 1 mL/ampul
cat. # 31684 (ea.)

also available

New Petroleum Standards & Sulfur Standards!
See pages 502-505 for more information.

Canada *cont'd*

Canadian Drinking Water Volatiles Mix

(19 components)
benzene 1,1-dichloroethene
bromodichloromethane ethylbenzene
bromoform methylene chloride
carbon tetrachloride tetrachloroethene
chlorobenzene toluene
chloroform trichloroethene
dibromochloromethane *m*-xylene
1,2-dichlorobenzene *o*-xylene
1,4-dichlorobenzene *p*-xylene
1,2-dichloroethane
2,000 µg/mL each in P&T methanol, 1 mL/ampul
cat. # 30610 (ea.)

Canadian Drinking Water Triazine

Herbicides Mix (7 components)
alachlor metribuzin
atrazine prometryne
cyanazine (Bladex) simazine
metolachlor
500 µg/mL each in acetone, 1 mL/ampul
cat. # 31864 (ea.)

Canadian Drinking Water Phenoxyacid

Herbicides Mix (11 components)
bromoxnil pentachlorophenol
2,4-D picloram
dicamba 2,4,5-T
2,4-dichlorophenol 2,3,4,6-tetrachlorophenol
diclofop methyl 2,4,6-trichlorophenol
dinoseb
1,000 µg/mL each in acetone, 1 mL/ampul
cat. # 31868 (ea.)

Canadian Drinking Water Carbamates Mix

aldicarb carbofuran
bendiocarb triallate
carbaryl (Sevin®)
100 µg/mL each in acetonitrile, 1 mL/ampul
cat. # 31865 (ea.)

Canadian Drinking Water Chlorinated

Pesticides Mix (14 components)
aldrin 4,4'-DDT
γ-BHC (lindane) dieldrin
α-chlordane heptachlor
γ-chlordane heptachlor epoxide (isomer B)
2,4'-DDE methoxychlor
4,4'-DDE oxychlordane
2,4'-DDT trifluralin
200 µg/mL each in hexane:toluene, 1 mL/ampul
cat. # 31866 (ea.)

Canadian Drinking Water OP Pesticides Mix

(9 components)
azinphos methyl (Guthion®) parathion (ethyl)
chlorpyrifos (Dursban®) phorate
Diazinon temephos (Abate®)
dimethoate terbufos
malathion
1,000 µg/mL each in acetonitrile, 1 mL/ampul
cat. # 31867 (ea.)

free data

Available on Our Website: Lot
Certificates, Data Packs, and
MSDSs

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the catalog number and lot
number of the product.

Canada - Atlantic Provinces

Atlantic RBCA EPH Mix (11 components)

acenaphthene	<i>n</i> -dotriacontane (C32)
anthracene	<i>n</i> -heneicosane (C21)
benzo(a)pyrene	<i>n</i> -hexadecane (C16)
chrysene	<i>n</i> -octacosane (C28)
<i>n</i> -decane (C10)	naphthalene
<i>n</i> -dodecane (C12)	

1,000µg/mL each in hexane:methylene chloride, 1mL/ampul
cat. # 31872 (ea.)

Atlantic RBCA EPH Surrogate Standard

<i>n</i> -dotriacontane (C32)	isobutylbenzene
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1,000µg/mL each in methylene chloride, 1mL/ampul
cat. # 31873 (ea.)

Atlantic RBCA VPH Mix (12 components)

benzene	<i>n</i> -octane (C8)
<i>n</i> -decane (C10)	toluene
ethylbenzene	1,2,4-trimethylbenzene
<i>n</i> -heptane (C7)	1,3,5-trimethylbenzene
<i>n</i> -hexane (C6)	<i>o</i> -xylene
1-methyl-3-ethylbenzene	<i>p</i> -xylene

1,000µg/mL each in P&T methanol, 1mL/ampul
cat. # 31871 (ea.)

Atlantic RBCA VPH Surrogate Standard

isobutylbenzene
1,000µg/mL in P&T methanol, 1mL/ampul
cat. # 30613 (ea.)

Europe

Organophosphorus Pesticide Mix, European

Formulation (16 components)		
acephate	200µg/mL	methamidophos 500
azinphos methyl		methidathion 200
(Guthion®)	400	omethoate 1000
chlorpyrifos	100	pirimiphos methyl 100
demeton-s-methyl	200	profenfos 200
dichlorvos (DDVP)	500	pyrazophos 500
dimethoate	200	tokuthion (prothiofos) 200
ethion	200	tolclofos-methyl 100
malathion	200	

In acetone, 1mL/ampul

cat. # 32418 (ea.)

PCB Congener Standard #1

2,4,4'-trichlorobiphenyl (BZ #28)
2,2',5,5'-tetrachlorobiphenyl (BZ #52)
2,2',4,5,5'-pentachlorobiphenyl (BZ #101)
2,2',3,4,4',5'-hexachlorobiphenyl (BZ #138)
2,2',4,4',5,5'-hexachlorobiphenyl (BZ #153)
2,2',3,4,4',5,5'-heptachlorobiphenyl (BZ #180)

10µg/mL each in isooctane, 1mL/ampul

cat. # 32290 (ea.)

PCB Congener Standard #2

2,4,4'-trichlorobiphenyl (BZ #28)
2,2',5,5'-tetrachlorobiphenyl (BZ #52)
2,2',4,5,5'-pentachlorobiphenyl (BZ #101)
2,3',4,4',5-pentachlorobiphenyl (BZ #118)
2,2',3,4,4',5'-hexachlorobiphenyl (BZ #138)
2,2',4,4',5,5'-hexachlorobiphenyl (BZ #153)
2,2',3,4,4',5,5'-heptachlorobiphenyl (BZ #180)

10µg/mL each in isooctane, 1mL/ampul

cat. # 32294 (ea.)

Europe *cont'd***Desethyl-atrazine**

1,000µg/mL in acetone, 1mL/ampul
cat. # 32445 (ea.)

Desisopropylatrazine

1,000µg/mL in acetone, 1mL/ampul
cat. # 32446 (ea.)

Terbutylazine

1,000µg/mL in acetone, 1mL/ampul
cat. # 32447 (ea.)

Propazine

1,000µg/mL in acetone, 1mL/ampul
cat. # 32448 (ea.)

Prometryne

1,000µg/mL in acetone, 1mL/ampul
cat. # 32449 (ea.)

Japan

Japan Calibration Mix (9 components)

Cylinder Construction:	aluminum
Cylinder Fitting:	CGA-180 outlet
acrylonitrile	dichloromethane
benzene	tetrachloroethene
1,3-butadiene	trichloroethene
chloroform	vinyl chloride
1,2-dichloroethane	

In nitrogen, 104 liters @ 1,800psi

1ppm cat. # 34418 (ea.)

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

1ppm cat. # 34418-PI (ea.)

Requires a high-purity VOC single-stage regulator. See page 415.

No data pack available.

Drinking Water Odor Standard

Unpleasant odor in drinking water is associated with the growth and decay of microorganisms. The threshold value for these compounds is low (10pppt) and purge and trap analyses usually are used to quantify them.

(+/-)-geosmin	2-methylisoborneol
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100µg/mL in P&T methanol, 1mL/ampul
cat. # 30608 (ea.)

did you know?

We have more than 2,000 pure, characterized, neat compounds in our inventory! If you do not see the EXACT mixture you need listed on any of these pages, call us.

See **page 427** for our Custom Reference Materials Request Form.

also available

Pi-marked Gas Cylinders Now Available for EU Countries

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

See **pages 413-417** for more information.

Korea

Korean Drinking Water—Pesticides Mix

carbaryl (Sevin®)	malathion
diazinon	parathion, ethyl
fenitrothion	

1,000µg/mL each in P&T methanol, 1mL/ampul
cat. # 32411 (ea.)

No data pack available.

Korean Drinking Water—VOC Mix A

(17 components)

benzene	phenol
bromodichloromethane	tetrachloroethene
bromoform	toluene
carbon tetrachloride	1,1,1-trichloroethane
chloroform	trichloroethene
dibromochloromethane	<i>m</i> -xylene
1,1-dichloroethene	<i>o</i> -xylene
ethylbenzene	<i>p</i> -xylene
methylene chloride	

100µg/mL each in P&T methanol, 1mL/ampul
cat. # 30480 (ea.)

No data pack available.

ISO/DIS 9377 Water Quality Testing

- For GC analysis of total petroleum hydrocarbons (TPH) in water.
- Calibration standard available as Diesel #2/ motor oil and Diesel #2/mineral oil.

Reference mixtures for ISO/DIS 9377 (German H-53), a gas chromatography/flame ionization detection (GC/FID) method.

Diesel #2/Motor Oil

diesel fuel #2 composite	motor oil
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5,000µg/mL each in hexane, 1mL/ampul
cat. # 31682 (ea.)

Diesel #2/Mineral Oil

diesel fuel #2 composite	mineral oil
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5,000µg/mL each in hexane, 1mL/ampul
cat. # 31676 (ea.)

Standard Mixture Stock Solution

diesel #2 (additive free)
mineral oil (additive free [i.e., USP grade] bp 325-460
or C18-C32 retention time range)

5,000µg/mL each in cyclohexane, 1mL/ampul
(prepares 8mL of 1.25µg/µL calibration curve high point)
Total hydrocarbon concentration 10,000µg/mL
cat. # 31630 (ea.)

Quality Control Standard Mixture, Revised

diesel #2 (additive-free)
motor oil (additive-free bp 325-460
or C18-C32 retention time range)

500µg/mL each in acetone, 1mL/ampul
(1mL is enough mix to spike one 900mL quality control sample).
Total hydrocarbon concentration 1,000µg/mL
cat. # 31641 (ea.)

ISO/DIS 9377 Water Quality Testing
cont'd

Quality Control Standard Mixture

diesel #2 (additive-free)
mineral oil (additive-free [i.e., USP grade] bp 391-522
or C24-C40 retention time range)

500µg/mL each in acetone, 1mL/ampul
(1mL is enough mix to spike one quality control sample).
Total hydrocarbon concentration 1,000µg/mL
cat. # 31631 (ea.)

System Performance Test Standard Mixture
of *n*-Alkanes (16 components)

<i>n</i> -decane (C10)	<i>n</i> -hexacosane (C26)
<i>n</i> -dodecane (C12)	<i>n</i> -octacosane (C28)
<i>n</i> -tetradecane (C14)	<i>n</i> -triacontane (C30)
<i>n</i> -hexadecane (C16)	<i>n</i> -dotriacontane (C32)
<i>n</i> -octadecane (C18)	<i>n</i> -tetracontane (C34)
<i>n</i> -eicosane (C20)	<i>n</i> -hexatriacontane (C36)
<i>n</i> -docosane (C22)	<i>n</i> -octatriacontane (C38)
<i>n</i> -tetracosane (C24)	<i>n</i> -tetracontane (C40)

50µg/mL each in hexane, 1mL/ampul
cat. # 31678 (ea.)

Extraction Solvent Stock Solution #1

<i>n</i> -decane (C10)	20µL/L	<i>n</i> -tetracontane (C40)	20mg/L
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In hexane, 5mL/ampul
cat. # 31679 (ea.)

Extraction Solvent Stock Solution #2

<i>n</i> -decane (C10)	20µL/L	<i>n</i> -tetracontane (C40)	20mg/L
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In hexane, 20mL/ampul
cat. # 31680 (ea.)

Stearyl Stearate Test Solution

stearyl stearate

2,000µg/mL in hexane, 10mL/ampul
cat. # 31681 (ea.)

2,000µg/mL in cyclohexane, 10mL/ampul
(enough to check one Florisil® cartridge)
cat. # 31636 (ea.)

Florisil® Cartridge Quality Control Standard
Mixture, Rev.3

diesel fuel #2 composite	motor oil
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1,000µg/mL each in hexane, 10mL/ampul
cat. # 31683 (ea.)

Florisil® Cartridge Quality Control Standard
Mixture, Rev.2

diesel fuel #2 composite	mineral oil
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1,000µg/mL each in hexane, 10mL/ampul
cat. # 31677 (ea.)

n-Tetracontane (C40)

Neat, 100mg
cat. # 31859 (ea.)

n-Decane (C10)

Neat, 1mL
cat. # 31858 (ea.)

Stearyl Stearate

Neat, 100mg
cat. # 31860 (ea.)



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