



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 2908  
**Laboratory Name:** ALS Environmental (Saskatoon)  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** July 18, 2019  
**Valid To:** February 26, 2020

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### Scope of Accreditation

#### Soil

Inorganic Carbon - Solids [Soil] (089)  
SK-TM-063, SK-TM-1019; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER (2008)  
METHOD 2012  
pH STANDARD CURVE  
Inorganic Carbon

#### Soil

Percent Saturation - Solids [Soil] (114)  
SK-TP-2016; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2  
GRAVIMETRIC - SATURATED PASTE  
Percent Saturation

#### Soil (Inorganic)

Particle Size Analysis (PSA) - Solids [] (106)  
SK-TM-1020; modified from ASTM D422-63  
GRAVIMETRIC  
Sand (>75um)

#### Soil (Inorganic)

Total Nitrogen - Solids [] (110)  
SK-TM-1006, SK-TM-1026; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 22.4  
COMBUSTION  
Total Nitrogen

#### Soil (Inorganic)

Total Sulphur - Solids [] (109)  
SK-TM-1006, SK-TM-1026; ISO 15178:2000  
COMBUSTION  
Total Sulfur

† "OSDWA" indicates the appendix is used for the analysis of Ontario drinking water samples, which is subject to the rules and related regulations under the Ontario "Safe Drinking Water Act" (2002).

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**Soil (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (100)

NA-TM-1100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GRAVIMETRIC - EXTRACTION

F4: Gravimetric

**Soil (Organic)**

Volatile Organic Compounds (VOC) - Solids [Soil] (103)

NA-TM-1102, NA-TP-2102; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1  
METHOD and EPA 5021A and EPA 5035A and EPA 8260C  
GC/MS - EXTRACTION

- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- 1,1-Dichloropropene
- 1,1,1-Trichloroethane
- 1,1,1,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,2-Dibromo-3-chloropropane (DBCP)
- 1,2-Dibromoethane
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,2,3-Trichlorobenzene
- 1,2,3-Trichloropropane
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,4-Dichlorobenzene
- 2-Chlorotoluene
- 2,2-Dichloropropane
- 4-Chlorotoluene
- 4-Isopropyltoluene
- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Bromomethane
- Carbon Tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- cis-1,2-Dichloroethylene
- cis-1,3-Dichloropropene
- Dibromochloromethane
- Dibromomethane
- Dichlorodifluoromethane
- Dichloromethane
- Ethylbenzene
- Hexachlorobutadiene

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Isopropylbenzene  
m/p-xylene  
Methyl t-butyl ether  
n-Butylbenzene  
n-Propylbenzene  
Naphthalene  
o-xylene  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride

**Solids (Inorganic)**

Ammonia Nitrogen - Solids [Soil] (021)  
SK-TP-2004, SK-TP-2005; modified from SOIL SAMPLING & METHODS OF ANALYSIS 19(6) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 6.2  
COLORIMETRIC - FIA  
Ammonia-N

**Solids (Inorganic)**

Atterberg Limits - Solids [] (120)  
SK-TM-1022; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008  
CASAGRANDE METHOD  
Liquid Limit  
Plastic Limit  
Plasticity Index

**Solids (Inorganic)**

Available Boron - Solids [Soil] (019)  
NA-TP-2010, SK-TM-1031; modified from SM 3120 B and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 9.2  
ICP/OES  
Boron

**Solids (Inorganic)**

Available Nitrite - Solids [Soil] (119)  
SK-TP-2004, SK-TP-2010; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008  
AUTO COLOR  
Available Nitrite

**Solids (Inorganic)**

Available Nitrogen - Solids [] (118)  
SK-TP-2004, SK-TP-2007; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008  
FLOW INJECTION ANALYSIS  
Available Nitrate plus Nitrite

**Solids (Inorganic)**

Available Nitrogen - Solids [Soil] (017)  
SK-TP-012, SK-TP-013; modified from ALBERTA AGRICULTURE (1988) and SM 4500-NO3- I  
COLORIMETRIC-FIA  
Nitrogen

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**Solids (Inorganic)**

Available Phosphorus - Solids [Soil] (015)

SK-TP-014, SK-TP-008; modified from COMM. IN SOIL SCI. & PLANT ANAL. 25 (5&6) and SM 4500P-G  
COLORIMETRIC -FIA

Phosphorus

**Solids (Inorganic)**

Available Phosphorus - Solids [Soil] (069)

SK-TP-2017; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 8  
COLORIMETRIC

Available Phosphate

**Solids (Inorganic)**

Available Potassium - Solids [Soil] (016)

SK-TP-014, SK-TP-008; modified from AOAC 2016 and COMM. IN SOIL SCI. & PLANT ANAL. 25 (5&6) and  
SMPR 983.02

COLORIMETRIC - FIA

Potassium

**Solids (Inorganic)**

Available Sulphur - Solids [Soil] (091)

SK-TM-1031, SK-TP-012; ALBERTA AGRICULTURE (1988) and SM 3120 B  
ICP/OES

Available Sulfur

**Solids (Inorganic)**

Cation Exchange Capacity (CEC) - Solids [Soil] (022)

SK-TP-030, SK-TP-2005; modified from SOIL SAMPLING & METHODS OF ANALYSIS 19(6) and SOIL  
SAMPLING & METHODS OF ANALYSIS, CARTER 18.4

COLORIMETRIC - NH<sub>4</sub>OAC

Cation Exchange Capacity

**Solids (Inorganic)**

Cations - Solids [Soil] (028)

SK-TM-1031, SK-TP-2016; modified from SM 3120 B and SOIL SAMPLING & METHODS OF ANALYSIS,  
CARTER 25.2

ICP/OES - SATURATED SOIL EXTRACTION

Boron

Calcium

Magnesium

Potassium

Sodium

Sulphur

**Solids (Inorganic)**

Chloride - Solids [Soil] (029)

SK-TP-066, SK-TP-2016; modified from SM 4500-CL- E and SOIL SAMPLING & METHODS OF ANALYSIS,  
CARTER 15.2

COLORIMETRIC - SATURATED PASTE

Chloride

**Solids (Inorganic)**

Conductivity - Solids [Soil] (014)

SK-TP-2001, SK-TP-2023; modified from ALBERTA AGRICULTURE (1988)

CONDUCTIVITY METER

Conductivity

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**Solids (Inorganic)**

Conductivity - Solids [Soil] (058)

SK-TP-2016, SK-TP-2023; modified from ALBERTA AGRICULTURE (1988) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2

CONDUCTIVITY METER - SATURATED PASTE

Conductivity

**Solids (Inorganic)**

Flashpoint - Solids [Ash, Soil] (055)

SK-TM-1102; modified from ASTM D93

PENSKE-MARTINS CLOSED CUP

Flashpoint

**Solids (Inorganic)**

Mercury - Solids [Soil] (102)

NA-TM-1005, NA-TP-2004; modified from EPA 1631E and EPA 200.2

COLD VAPOUR AA - SPECTROMETRIC

Mercury

**Solids (Inorganic)**

Metals - Solids [Soil] (023)

SK-TM-1031, SK-TP-030; modified from SM 3120 B and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 18.4

ICP/OES - NH4 OAC EXT.

Calcium

Magnesium

Potassium

Sodium

**Solids (Inorganic)**

Metals - Solids [Soil] (072)

NA-TP-2004, NA-TM-1002; modified from EPA 200.2 and EPA 6020

ICP/MS - ACID DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

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Strontium  
Sulfur  
Thallium  
Tin  
Titanium  
Tungsten  
Uranium  
Vanadium  
Zinc  
Zirconium

**Solids (Inorganic)**

Moisture - Solids [Soil] (090)

NA-TM-1200; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GRAVIMETRIC  
Percent Moisture

**Solids (Inorganic)**

Nitrate plus Nitrite - Solids [Soil] (050)

SK-TP-2007, SK-TP-2016; modified from SM 4500-NO3- I and SOIL SAMPLING & METHODS OF ANALYSIS,  
CARTER 15.2  
COLORIMETRIC - SATURATED PASTE  
Nitrate plus Nitrite - N

**Solids (Inorganic)**

Organic Matter - Solids [Soil] (026)

SK-TM-1003; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 21.3.2  
TITRATION  
Organic Matter

**Solids (Inorganic)**

Particle Size Analysis (PSA) - Solids [Soil] (070)

SK-TM-1009; modified from USDA SSIR 51 METHOD 3.2.1  
Pipet Method  
% Clay (<0.002mm)  
% Sand (2mm-0.05mm)  
% Silt (0.05mm-0.002mm)

**Solids (Inorganic)**

Particle Size Analysis (PSA) - Solids [Soil] (088)

SK-TM-045; modified from SOIL SURVEY & FIELD LABORATORY METHODS MANUAL (USDA)SSIR 51) 3.2.1  
SIEVE AND PIPETTE  
Clay (<0.004mm)  
Fines (<0.075mm)  
Gravel (>2mm)  
Sand (0.125mm-0.063mm)  
Sand (0.25mm-0.125mm)  
Sand (0.425mm-0.075mm)  
Sand (0.5mm-0.25mm)  
Sand (1mm-0.5mm)  
Sand (2mm-1mm)  
Sand (4.75mm-2mm)  
Silt (0.031mm-0.004mm)  
Silt (0.063mm-0.031mm)

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**Solids (Inorganic)**

pH - Solids [Soil] (013)

SK-TP-2001, SK-TP-2023; modified from ALBERTA AGRICULTURE (1988)

pH METER

pH

**Solids (Inorganic)**

pH - Solids [Soil] (057)

SK-TP-2016, SK-TP-2023; modified from ALBERTA AGRICULTURE (1988) and SOIL SAMPLING &amp; METHODS OF ANALYSIS, CARTER 15.2

pH METER - SATURATED PASTE

pH

**Solids (Inorganic)**

Total Carbon - Solids [Soil] (030)

SK-TM-1006, SK-TM-1026; modified from SOIL SAMPLING &amp; METHODS OF ANALYSIS, CARTER 21.2

COMBUSTION GC

Total Carbon

**Solids (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Solids [Soil] (032)

SK-TP-2014, SK-TP-2018; modified from SM 4500-NH3 G and SOIL SAMPLING &amp; METHODS OF ANALYSIS, CARTER 22.2.3

COLORIMETRIC

Kjeldahl Nitrogen

**Solids (Organic)**

BTEX - Solids [Soil] (054)

NA-TM-1102, NA-TP-2102; modified from EPA 5035A and EPA 8260C

GC/MS

Benzene

Ethylbenzene

m/p-xylene

o-xylene

Styrene

Toluene

**Solids (Organic)**

Organic Matter - Solids [Soil] (068)

SK-TM-1002; modified from ASTM D2974 and SOIL SAMPLING &amp; METHODS OF ANALYSIS CAN SOIL SCI P. 160 and SOIL SAMPLING &amp; METHODS OF ANALYSIS, CARTER 2008

LOSS ON IGNITION

Loss on Ignition (LOI) at 375C

Loss on Ignition (LOI) at 420C

Loss on Ignition (LOI) at 440C

Loss on Ignition (LOI) at 550C

Loss on Ignition (LOI) at 750C

Organic Matter

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (051)

NA-TM-1102, NA-TP-2102; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - EXTRACTION

F1: C6-C10

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**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (052)

NA-TM-1100, NA-TP-2100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GC/FID - EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

**Tissue (Inorganic)**

Total Nitrogen - Tissue (108)

SK-TM-1006, SK-TM-1026; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 22.4  
COMBUSTION

Total Nitrogen

**Waste**

Leachable BTEX - Waste (113)

NA-TM-1102, SK-TP-2700; modified from EPA 1311 (PREPARATION) and EPA 8260B (ANALYSIS)  
GC/MS - HEADSPACE - TCLP

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

**Waste**

Leachable Metals - Waste (112)

NA-TM-1002, NA-TM-1700, NA-TP-2001; modified from EPA 1311 (PREPARATION) and EPA 6020B  
(ANALYSIS)

ICP/MS - TCLP

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Nickel

Selenium

Silver

Thallium

Uranium

Vanadium

Zinc

Zirconium

**Waste**

Mercury - Waste (111)

NA-TM-1005, NA-TM-1700; modified from EPA 1311 (PREPARATION) and EPA 1631E (ANALYSIS)  
COLD VAPOUR AA - TCLP

Mercury

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**Waste**

Paint Filter - Waste (115)  
SK-TM-1750; modified from EPA 9095A  
FILTRATION  
Free Liquids

**Water (Inorganic)**

Alkalinity - Water (085)  
SK-TM-063; SM 2320 B  
PC TITRATE  
Alkalinity (pH 4.5)

**Water (Inorganic)**

Anions - Water (121)  
NA-TM-1001; modified from EPA 300.1  
ION CHROMATOGRAPHY  
Bromide  
Chloride  
Fluoride  
Nitrate  
Nitrite  
Sulfate

**Water (Inorganic)**

Biochemical Oxygen Demand (BOD) - Water (078)  
SK-TM-053; modified from SM 5210 A and SM 5210 B  
D.O. METER  
BOD (5 day)  
CBOD (5 day)

**Water (Inorganic)**

Cations - Water (056)  
NA-TP-2002, SK-TM-1031; modified from SM 3120 B  
ICP/OES  
Calcium  
Magnesium  
Potassium  
Sodium  
Sulphur

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (079)  
SK-TM-044; SM 5220 D  
COLOR - DIGESTION  
COD

**Water (Inorganic)**

Chloride - Water (002)  
SK-TP-066; modified from SM 4500-CL- E  
COLORIMETRIC - DISCRETE  
Chloride

**Water (Inorganic)**

Colour - Water (061)  
SK-TM-051; SM 2120 C  
COLORIMETRIC  
True Colour

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**Water (Inorganic)**

Conductivity - Water (084)

SK-TM-063; SM 2510 B

PC TITRATE

Conductivity (25°C)

**Water (Inorganic)**

Dissolved Metals - Water (074)

NA-TP-2002, NA-TM-1002; modified from EPA 6020A and SM 3030 B

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cesium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silicon

Silver

Sodium

Strontium

Sulfur

Tellurium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Zinc

Zirconium

**Water (Inorganic)**

Fluoride - Water (063)

SK-TM-1001; SM 4500-F- C

ION SELECTIVE ELECTRODE

Fluoride

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**Water (Inorganic)**

Mercury - Water (101)  
NA-TM-1005, NA-TP-2002; modified from EPA 1631E  
COLD VAPOUR AA - SPECTROMETRIC  
Mercury

**Water (Inorganic)**

Nitrate plus Nitrite - Water (048)  
SK-TP-2007, SK-TP-2010; modified from SM 4500-NO3- I  
COLORIMETRIC  
Nitrate  
Nitrate plus Nitrite

**Water (Inorganic)**

Nitrite - Water (087)  
SK-TP-2010; modified from SM 4500-NO2- A  
COLORIMETRIC  
Nitrite

**Water (Inorganic)**

Nitrogen - Water (064)  
SK-TP-2014; modified from SM 4500-NH3 G  
COLORIMETRIC  
Ammonia

**Water (Inorganic)**

Oil and Grease - Water (104)  
NA-TM-1107; modified from BC MOE LABORATORY MANUAL SECTION D  
GRAVIMETRIC - EXTRACTION  
Mineral Oil and Grease  
Total Oil and Grease

**Water (Inorganic)**

pH - Water (083)  
SK-TM-063; SM 4500-H+  
PC TITRATE  
pH

**Water (Inorganic)**

Phosphate - Water (116)  
SK-TM-1032; modified from SM 4500-P  
FLOW INJECTION ANALYSIS  
Phosphate

**Water (Inorganic)**

Phosphorus - Water (065)  
SK-TM-1032; modified from SM 4500-P E  
COLORIMETRIC  
Phosphate

**Water (Inorganic)**

Phosphorus - Water (066)  
SK-TM-1032, SK-TP-2013; modified from EPA 365.5 and SM 4500-P E  
H2S04 DIGEST/COLORIMETRIC  
Total Phosphorus

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**Water (Inorganic)**

Solids - Water (067)

NA-TM-1004, SK-TM-1007, SK-TM-1021; modified from SM 2540 B and SM 2540 C and SM 2540 D and SM 2540 E

## GRAVIMETRIC

Fixed Suspended Solids (Calculation)

Total Dissolved Solids

Total Solids

Total Suspended Solids

Volatile Suspended Solids

**Water (Inorganic)**

Total Metals - Water (073)

NA-TP-2001, NA-TM-1002; modified from EPA 6020 and SM 3030 E

## ICP/MS - ACID DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cesium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silicon

Silver

Sodium

Strontium

Sulfur

Tellurium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Zinc

Zirconium

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**Water (Inorganic)**

Total Phosphorus - Water (117)  
SK-TM-1032; modified from SM 4500-P  
FLOW INJECTION ANALYSIS  
Total Phosphorus

**Water (Inorganic)**

Turbidity - Water (062)  
SK-TM-050; SM 2130 B  
TURBIDIMETRIC  
Turbidity

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (093)  
NA-TM-1300; modified from SM 9223 B  
MOST PROBABLE NUMBER (QUANTI-TRAY)  
Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (092)  
NA-TM-1300; modified from SM 9215 E  
MOST PROBABLE NUMBER (QUANTI-TRAY)  
Heterotrophic Plate Count (HPC)

**Water (Microbiology)**

Total Coliforms and Escherichia coli (E.coli) - Water (059)  
NA-TM-1300; modified from SM 9223 B  
MOST PROBABLE NUMBER (COLILERT- QUANTI-TRAY 24 HR)  
Escherichia coli  
Total Coliforms

**Water (Organic)**

BTEX - Water (045)  
NA-TM-1102; modified from EPA 5021A and EPA 8260C  
GC/MS - HEADSPACE  
Benzene  
Ethylbenzene  
m/p-xylene  
o-xylene  
Toluene

**Water (Organic)**

Total Extractable Hydrocarbons (TEH) - Water (047)  
NA-TM-1112, NA-TP-2100; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1  
METHOD and EPA 3511  
GC/FID  
F2: C10-C16  
F3: C16-C34  
F4: C34-C50

**Water (Organic)**

Total Volatile Hydrocarbons (TVH) - Water (046)  
NA-TM-1102; modified from BC MOE LABORATORY MANUAL and EPA 5021A  
GC/FID  
F1: C6-C10

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## Water (Organic)

Volatile Organic Compounds (VOC) - Water (086)

NA-TM-1102; modified from EPA 5021A and EPA 8260C

GC/MS - HEADSPACE

1,1-Dichloroethane  
1,1-Dichloroethylene  
1,1-Dichloropropene  
1,1,1-Trichloroethane  
1,1,1,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,2-Dibromo-3-chloropropane (DBCP)  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,2,3-Trichlorobenzene  
1,2,3-Trichloropropane  
1,2,4-Trichlorobenzene  
1,2,4-Trimethylbenzene  
1,3-Dichlorobenzene  
1,3-Dichloropropane  
1,3,5-Trimethylbenzene  
1,4-Dichlorobenzene  
2-Chlorotoluene  
2,2-Dichloropropane  
4-Chlorotoluene  
4-Isopropyltoluene  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene  
Isopropylbenzene  
m/p-xylene  
Methyl t-butyl ether  
n-Butylbenzene  
n-Propylbenzene  
Naphthalene

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o-xylene  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl Chloride

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