



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 2908  
**Laboratory Name:** ALS Environmental (Saskatoon)  
**Parent Institution:** ALS Canada Ltd.  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** August 7, 2020  
**Valid To:** April 3, 2022

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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 [Soil] (106)  
SK-TM-1020; modified from ASTM D422-63  
GRAVIMETRIC  
Sand (>75um)

#### Soil (Inorganic)

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

#### Soil (Inorganic)

Total Sulphur - Solids [Soil] (109)  
SK-TM-1006, SK-TM-1026; ISO 15178:2000  
COMBUSTION  
Total Sulphur (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 (Ethylene dibromide)  
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 (p-Chlorotoluene)  
4-isopropyltoluene (p-Cymene)  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon tetrachloride  
Chlorobenzene  
Chloroethane (Ethyl Chloride)  
Chloroethene (Vinyl chloride)  
Chloroform  
Chloromethane (Methyl chloride)  
cis-1,2-Dichloroethylene

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cis-1,3-Dichloropropene  
Dibromochloromethane  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Ethylbenzene  
Hexachlorobutadiene  
Isopropylbenzene (Cumene)  
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

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

**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 [Soil] (017)  
SK-TP-2006, SK-TP-2007; modified from ALBERTA AGRICULTURE (1988) and SM 4500-NO3- I  
COLORIMETRIC-FIA  
Nitrogen

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**Solids (Inorganic)**

Available Nitrogen - Solids [Soil] (118)

SK-TP-2004, SK-TP-2007; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008  
FLOW INJECTION ANALYSIS

Available Nitrate plus Nitrite

**Solids (Inorganic)**

Available Nutrients - Solids [Soil] (123)

SK-TM-1031, SK-TP-021; modified from SM 3120 and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 1993

ICP/OES - EXTRACTION

Copper

Iron

Manganese

Zinc

**Solids (Inorganic)**

Available Phosphorus - Solids [Soil] (015)

SK-TP-2003, SK-TP-2008; 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-2003, SK-TP-2008; 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 - NH4OAC

Cation Exchange Capacity (CEC)

**Solids (Inorganic)**

Cations - Solids [Soil] (028)

NA-TP-2008, SK-TM-1031; modified from SM 3120 B and SOIL SAMPLING & METHODS OF ANALYSIS,  
CARTER 25.2

ICP/OES - SATURATED SOIL EXTRACTION

Boron

Calcium

Magnesium

Potassium

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Sodium  
Sulphur (Sulfur)

**Solids (Inorganic)**

Chloride - Solids [Soil] (029)  
NA-TP-2008, SK-TP-066; modified from SM 4500-CL- E and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2  
COLORIMETRIC - SATURATED PASTE  
Chloride

**Solids (Inorganic)**

Chloride - Solids [Soil] (122)  
SK-TP-066, SK-TP-2011; modified from NORTH CENTRAL REGION RECOMMENDED CHEM. SOIL TEST PROCEDURE and SM 4500-CL- E  
COLORIMETRIC - DISCRETE  
Available Chloride

**Solids (Inorganic)**

Conductivity - Solids [Soil] (014)  
SK-TP-2001, SK-TP-2023; modified from ALBERTA AGRICULTURE (1988)  
CONDUCTIVITY METER  
Conductivity

**Solids (Inorganic)**

Conductivity - Solids [Soil] (058)  
NA-TP-2008, 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-TM-1002, NA-TP-2004; modified from EPA 200.2 and EPA 6020  
ICP/MS - ACID DIGESTION  
Aluminum  
Antimony

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Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Sulphur (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-NO<sub>3</sub>- I and SOIL SAMPLING & METHODS OF ANALYSIS,  
CARTER 15.2

COLORIMETRIC - SATURATED PASTE

Nitrate plus Nitrite - N

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**Solids (Inorganic)**

Particle Size Analysis (PSA) - Solids (124)

SK-TM-1023; modified from ASTM D6913 and ASTM D7928

HYDROMETER

Clay (&lt;0.002mm)

Clay (&lt;0.005mm)

Clay (&lt;0.005mm)

Coarse sand (2mm-4.75mm)

Fine sand (0.075mm-0.425mm)

Fines (&lt;0.075mm)

Gravel (4.75mm-75mm)

Medium sand(0.425mm-2mm)

Percent Clay

Percent Sand

Percent Silt

Silt (0.002mm-0.075mm)

Silt (0.005mm-0.075mm)

**Solids (Inorganic)**

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

SK-TM-1009; modified from USDA SSIR 51 METHOD 3.2.1

Pipet Method

Percent Clay

Percent Sand

Percent Silt

**Solids (Inorganic)**

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

SK-TM-1011; modified from SOIL SURVEY &amp; FIELD LABORATORY METHODS MANUAL (USDA)SSIR 51) 3.2.1

SIEVE AND PIPETTE

Clay (&lt;0.004mm)

Fines (&lt;0.075mm)

Gravel (&gt;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)

**Solids (Inorganic)**

pH - Solids [Soil] (013)

SK-TP-2001, SK-TP-2023; modified from ALBERTA AGRICULTURE (1988) and EPA 9045D and SOIL SAMPLING &amp; METHODS OF ANALYSIS, CARTER 2008

pH METER

pH

pH (1:1) soil:water

pH (1:2) soil:CaCl<sub>2</sub>

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pH (1:2) soil:water

**Solids (Inorganic)**

pH - Solids [Soil] (057)

NA-TP-2008, SK-TP-2023; modified from ALBERTA AGRICULTURE (1988) and SOIL SAMPLING & 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 & METHODS OF ANALYSIS, CARTER 21.2 COMBUSTION GC

Total Carbon (TC)

**Solids (Inorganic)**

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

SK-TP-2014, SK-TP-2018; modified from SM 4500-NH3 G and SOIL SAMPLING & 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 & METHODS OF ANALYSIS CAN SOIL SCI P. 160 and SOIL SAMPLING & 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

**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

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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 9095B  
FILTRATION  
Free Liquids

**Water (Inorganic)**

Alkalinity - Water (085)  
SK-TM-1017; SM 2320 B  
AUTO TITRIMETRIC  
Alkalinity (pH 4.5)  
Alkalinity (pH 8.3)

**Water (Inorganic)**

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

**Water (Inorganic)**

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

**Water (Inorganic)**

Conductivity - Water (084)  
SK-TM-1017; SM 2510 B  
AUTO CONDUCTIVITY METER  
Conductivity (25°C)

**Water (Inorganic)**

Dissolved Metals - Water (074)  
NA-TM-1002, NA-TP-2002; modified from EPA 6020A and SM 3030 B  
ICP/MS  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Cesium  
Chromium  
Cobalt  
Copper

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Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Rubidium  
Selenium  
Silicon  
Silver  
Sodium  
Strontium  
Sulphur (Sulfur)  
Tellurium  
Thallium  
Thorium  
Tin  
Titanium  
Tungsten  
Uranium  
Vanadium  
Zinc  
Zirconium

**Water (Inorganic)**

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

**Water (Inorganic)**

pH - Water (083)  
SK-TM-1017; SM 4500-H+  
AUTO - pH METER  
pH

**Water (Inorganic)**

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

**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

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Total Solids (TS)  
Total Suspended Solids  
Volatile Suspended Solids

**Water (Inorganic)**

Total Metals - Water (073)

NA-TM-1002, NA-TP-2001; 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  
Sulphur (Sulfur)  
Tellurium  
Thallium  
Thorium  
Tin  
Titanium  
Tungsten  
Uranium  
Vanadium  
Zinc  
Zirconium

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**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 (QUANTI-TRAY)  
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

**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

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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 (p-Chlorotoluene)  
4-isopropyltoluene (p-Cymene)  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane (Ethyl Chloride)  
Chloroform  
Chloromethane (Methyl chloride)  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene  
Isopropylbenzene (Cumene)  
m,p-Xylene  
Methyl t-butyl ether  
n-Butylbenzene  
n-Propylbenzene

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Naphthalene  
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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