

ACES 2017-4 Analysis codes

true color (absorbance / Hazen units), apparent color (Hazen units), conductivity, pH, turbidity, alkalinity, Ca+Mg, hardness (dH), Ca, K, Mg, Na, chloride, fluoride, sulfate, sum anions, sum cations, CODMn,

Please report your standard method as Extra Info. Contact us if anything is unclear.

True color: Absorbance

$a(\lambda)$

Absorbance coefficient $a(\lambda)$ according to the equation in the information sheet.
Extra Info: Cuvette length and results for apparent color if measured.

ABSF-D410	Filtered (0.45 μm). Photometric determination at 410 nm. Cuvette length 10-100 mm. SS-EN ISO 7887
ABSF-D420	Filtered (0.45 μm). Photometric determination at 420 nm. Cuvette length 10-100 mm. SS-EN ISO 7887
ABSF-D436	Filtered (0.45 μm). Photometric determination at 436 nm. Cuvette length 10-100 mm. SS-EN ISO 7887

True color: Hazen units

mg Pt/l

COLF-DB	Filtered. Converted to mg Pt/l from absorbance using an empirical conversion factor. Specify conversion factor in Extra Info.
COLF-DF	Filtered. Photometric determination. Wavelength 400-470 nm. SS-EN ISO 7887; HACH 8025
COLF-DK	Filtered. Comparator. Filtered or centrifuged subsample. Clear solution transferred to Nessler or similar tubes. Visual comparison with calibrated colored glass plates. SS-EN ISO 7887
COLF-XXD	Filtered. Other method.

Apparent color: Hazen units

mg Pt/l

COLO-NB	Unfiltered. Converted to mg Pt/l from absorbance using an empirical conversion factor. Specify conversion factor in Extra Info.
COLO-NF	Unfiltered. Photometric determination. Wavelength 400-470 nm. SS-EN ISO 7887
COLO-NK	Unfiltered. Comparator. Subsample transferred to Nessler or similar tubes. Visual comparison with calibrated colored glass plates. SS-EN ISO 7887
COLO-XXN	Unfiltered. Other method.

Conductivity

mS/ m

KOND-20	Measured at 20 degrees C. SS-EN 27888; ISO 7888:1985
KOND-25	Measured at 25 degrees C. SIS 28123; SS-EN 27888; ISO 7888:1985
KOND-25T	Measured with titroprocessor at 25 degrees C. SIS 28123; SS-EN 27888; ISO 7888:1985
KOND-F	Direct determination (often in field) without temperature correction.
KOND-K	Continuous determination with temperature correction.
KOND-XX	Other method. Specify standard or describe the method.

pH

PH-20	Electrometric measurement at 20 degrees C. SS 28122 mod.; SS-EN ISO 10523:2012
PH-25	Electrometric measurement at 25 degrees C. SS 28122; SS-EN ISO 10523:2012
PH-25T	Electrometric measurement with titroprocessor at 25 degrees C. SS 28122; SS-EN ISO 10523:2012
PH-K	Continuous measurement, electrometric, temperature compensation. SS 28122; SS-EN ISO 10523:2012
PH-R	Electrometric measurement at room temperature. SS-EN ISO 10523:2012
PH-XX	Other method. Specify standard or describe the method.

Turbidity

FNU

TURB-FNU	Nephelometric. Measurement with turbidimeter in FNU (= FTU = NTU). SS-EN ISO 7027
TURB-XX	Other method. Specify standard or describe the method.

Alkalinity

mmol/ l

ALK-HACH	Procedure according to Hach or equivalent method. HACH 8203
ALK-NN4	Total alkalinity: endpoint pH 4.5. Titrimetric determination with indicator. SS-EN ISO 9963-1; Standard Methods 2320 B
ALK-NN5	Carbonate alkalinity: endpoint pH 5.4. Titrimetric determination with indicator. SS-EN ISO 9963-2

ALK-NP4	Total alkalinity: endpoint pH 4.5. Titrimetric determination. Potentiometric endpoint determination with pH-meter or equivalent. SS-EN ISO 9963-1; Standard Methods 2320 B
ALK-NP5	Carbonate alkalinity: endpoint pH 5.4. Titrimetric determination. Potentiometric endpoint determination with pH-meter or equivalent. SS-EN ISO 9963-2
ALK-XX	Other method. Specify standard or describe the method.

Calcium + Magnesium

mg/l

CAMG-BER	Calculated calcium and magnesium.
CAMG-DJ	Dissolved (0.45 µm filter). Ion chromatographic determination.
CAMG-DT	Dissolved. Titrimetric determination with EDTA and Eriochrome Black T as indicator. SS 28121
CAMG-NF	Unfiltered. Atomic absorption. Flame. Direct injection. SS 28161
CAMG-NI	Unfiltered. ICP-AES. Hardness calculated as mg Ca/l. SS-EN ISO 11885
CAMG-NK	Unfiltered. ICP-MS. Direct injection. EPA 200.7
CAMG-NT	Unfiltered. Titrimetric determination with EDTA and Eriochrome Black T as indicator. SS 28121

Hardness (dH)

°dH

HARD-DT	Dissolved. Titrimetric determination with EDTA and Eriochrome Black T as indicator. SS 28121
HARD-NI	Unfiltered. Calcium and magnesium determined by ICP-AES. Recalculated to °dH. SS-EN ISO 11885; ÅF 1985
HARD-NK	Unfiltered. Calcium and magnesium determined by ICP-MS. Recalculated to °dH. SS-EN ISO 17294; EPA 200.7
HARD-NT	Unfiltered. Titrimetric determination with EDTA and Eriochrome Black T as indicator. SS 28121
HARD-XX	Other method. Specify standard or describe the method.

Calcium

mg/l

CA-AF	Dissolved in acid. Atomic absorption. Flame. Digestion in HNO ₃ (7M). SS 28161, SS 28150
CA-AI	Dissolved in acid. Digestion in HNO ₃ (7M). ICP-AES. Deutsche Einheitsverfahren; SS-EN ISO 11885

CA-DF	Dissolved (0.45 µm filter). Atomic absorption. Flame. Direct injection. SS 28161, SS 28150
CA-DI	Dissolved (0.45 µm filter). ICP-AES. Direct injection. Deutsche Einheitsverfahren
CA-DJ	Dissolved (0.45 µm filter). Ion chromatographic determination. SS-EN ISO 14911
CA-NF	Unfiltered. Atomic absorption. Flame. Direct injection. SS 28161, SS 28150
CA-NI	Unfiltered. ICP-AES. Direct injection. Deutsche Einheitsverfahren; SS-EN ISO 11885
CA-NK	Unfiltered. ICP-MS. Direct injection.
CA-NT	Unfiltered. Titrimetric determination with EDTA with calconcarboxylic acid as indicator. SIS 28119

Potassium

mg/l

K-AI	Dissolved in acid. ICP-AES. Digestion in HNO ₃ (7M). Direct injection. Deutsche Einheitsverfahren; SS 28150
K-DF	Dissolved (0.45 µm filter). Atomic absorption. Flame. Direct injection. SS 28160
K-DJ	Dissolved (0.45 µm filter). Ion chromatographic determination. SS-EN ISO 14911
K-NE	Unfiltered. Atomic emission. Flame. Direct injection. SNV (SEPA)
K-NF	Unfiltered. Atomic absorption. Flame. Direct injection. SS 28160
K-NI	Unfiltered. ICP-AES. Direct injection. Deutsche Einheitsverfahren
K-NK	Unfiltered. ICP-MS. Direct injection.

Magnesium

mg/l

MG-AF	Dissolved in acid. Atomic absorption. Flame. Digestion in HNO ₃ (7M). Direct injection. SS 28150, SS 28161
MG-AI	Dissolved in acid. ICP-AES. Digestion in HNO ₃ (7M). Direct injection. Deutsche Einheitsverfahren; SS 28150
MG-DF	Dissolved (0.45 µm filter). Atomic absorption. Flame. Direct injection. SS 28161
MG-DJ	Dissolved (0.45 µm filter). Ion chromatographic determination. SS-EN ISO 14911
MG-NF	Unfiltered. Atomic absorption. Flame. Direct injection. SS 28161

MG-NI	Unfiltered. ICP-AES. Direct injection. Deutsche Einheitsverfahren
MG-NK	Unfiltered. ICP-MS. Direct injection. SS-EN ISO 17294
MG-NT	Unfiltered. Titrimetric determination of Ca+Mg with EDTA and Eriochrome Black T as indicator. Separate determination of Ca with EDTA and calconcarboxylic acid as indicator. Subtract for Mg. SS 28119, SS 28121
MG-XX	Other method. Specify standard or describe the method.

Sodium

mg/l

NA-AF	Dissolved in acid. Flame AAS. Digestion in HNO ₃ (7M). SS 28150; SS 28160
NA-AI	Dissolved in acid. ICP-AES. Digestion in HNO ₃ (7M). Deutsche Einheitsverfahren; EPA 200.7; SS-EN ISO 11885:2009
NA-DE	Dissolved (0.45 µm filter). Flame AES. Direct injection. SNV (SEPA)
NA-DF	Dissolved (0.45 µm filter). Flame AAS. Direct injection. SS 28150; SS 28160
NA-DJ	Dissolved (0.45 µm filter). Ion chromatographic determination. SS-EN ISO 14911
NA-NE	Unfiltered. Flame AES. Direct injection. SNV (SEPA)
NA-NF	Unfiltered. Flame AAS. Direct injection. SS 28150; SS 28160
NA-NI	Unfiltered. ICP-AES. Direct injection. Deutsche Einheitsverfahren; EPA 200.7; SS-EN ISO 11885:2009
NA-NK	Unfiltered. ICP-MS. Direct injection. EPA 200.8; SS-EN ISO 17294
NA-XXD	Other method. Filtered.
NA-XXN	Other method. Unfiltered.

Chloride

mg/l

CL-DA	Dissolved (0.45 µm filter). Autoanalyzer after addition of thiocyanate and mercury.
CL-DJ	Dissolved (0.45 µm filter). Ion chromatographic determination. SS-EN ISO 10304
CL-ND	Photometric titration with mercuric nitrate. Indicator: Diphenylcarbazone. IMI
CL-NF	Unfiltered. FIA after addition of Hg(II)thiocyanate and Fe(III)nitrate.
CL-NJ	Ion chromatographic determination. SS-EN ISO 15061

CL-NM	Titrimetric determination with silver nitrate. Indicator: Potassium chromate. SIS 28120
CL-NN	Potentiometric determination with silver nitrate and Ag/AgCl electrode. SNV (SEPA) PM 645
CL-NP	Potentiometric titration with silver nitrate. SS 28136

Fluoride

mg/l

F-DJ	Dissolved (0.45 µm filter). Ion chromatographic determination. SS-EN ISO 10304
F-NF	Unfiltered. Atomic absorption. Direct injection in flame.
F-NJ	Unfiltered. Ion chromatographic determination. SS-EN ISO 10304
F-NP	Unfiltered. Potentiometric determination with ion specific electrode. SIS 28135; ISO 10359-1
F-XX	Other method. Specify standard or describe the method.

Sulphate

mg/l

SO4-DJ	Dissolved (0.45 µm filter). Ion chromatographic determination. SS-EN ISO 10304
SO4-NI	Unfiltered. ICP-AES. Direct injection.
SO4-NJ	Unfiltered. Ion chromatographic determination. SNV (SEPA); Tecator
SO4-NN	Unfiltered. Nefelometric detection of sulphate as bariumsulphate suspension. (SS 28198)
SO4-NT	Unfiltered. Titrimetric determination of cation-exchanged sample. Indicator: Thorin. (SS 28182)
SO4-XX	Other method. Specify standard or describe the method.

Sum Anions

meq/l

SANJ-SUM	Sum anions
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Sum Cations

meq/l

SKATJ-SUM	Sum cations
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CODMn: Chemical Oxygen Demand, permanganate

mg/l

Part A only

CODMN-DT	Filtered, glass fiber. Titrimetric determination of consumed potassium permanganate. SS 28118; SS-EN ISO 8467
CODMN-NL	Determination by Lange or equivalent cuvette test.
CODMN-NT	Unfiltered. Titrimetric determination of consumed potassium permanganate. SS 28118; SS-EN ISO 8467
CODMN-XXD	Other method. Filtered.
CODMN-XXN	Other method. Unfiltered.

TOC: Organic Carbon

mg/l

Please specify your analysis principle. See the information sheet.

CORG-HLA	Cuvette test, expulsion method (homogenisation, expulsion and digestion) according to Hach-Lange (LCK385, 386, 387), principle 3. SS-EN 1484
CORG-TI	Oxidation by persulphate digestion in UV-light. Determination of formed CO ₂ with IR, principle 3. SS-EN 1484; instr. ex. Hach astroUV, BioTector, Teledyne Tekmar Fusion
CORG-TK	Oxidation by catalytic combustion. Reduction of formed CO ₂ into CH ₄ . Determination with FID. Automatic determination. CARLO-ERBA
CORG-TKC	Unfiltered. Catalytic combustion. Determination of CO ₂ with IR. SS 28199; SS-EN 1484-1; ISO 8245:1999
CORG-XX	Other method. Specify standard or describe the method.