

Hach EPA Compliant Methods

EPA-Approved Methods

The EPA has evaluated and approved new technological methods developed by Hach Company. All EPA-Approved methods are cited in the Federal Register and compiled in the Code of Federal Regulations at 40 CFR 136 and CFR 141.

EPA-Accepted Methods

The EPA has reviewed Hach methods and accepted them for use in compliance monitoring. These methods are defined by EPA as Acceptable versions of previously approved methods. These methods are generally not published in the Federal Register or in the Code of Federal Regulations. A facsimile of the EPA- Acceptance letter is available upon request.

EPA-Equivalent Methods

All EPA-Approved methods have specification criteria built into their procedural steps. When an approved or accepted EPA method has been packaged by Hach from the EPA reference method as a test method that meets or exceeds these specification criteria, these methods are deemed to be equivalent for use in EPA compliance monitoring (40 CFR 136.6). EPA does not normally issue equivalence letters of packaged reference methods. Hach maintains the formulation, procedure, and data demonstrating equivalency and is available upon request.

Hach Approved Methods

These methods may be used for compliance monitoring. They have either obtained an EPA Approval or Acceptance letter, or the method is a packaged product that follows an EPA Reference method and is deemed Equivalent under 40 CFR 136.6. With any method used for compliance reporting, always consult with your local regulatory authority.



Analyte	Sample Matrix†	Hach Method	Approval Type	Reference Method	See Page
Acidity, as CaCO ₃ , Phenolphthalein, Buret	WW	8010	Accepted	SM 2310 B	12
Acidity, Phenolphthalein, Digital Titration	WW	8202	Equivalent	SM 2310 B	12
Alkalinity, Digital Titration	WW	8203	Equivalent	SM 2320 B, EPA 310.2	14
Ammonia as Nitrogen	WW	TNT830	Equivalent	EPA 350.1, EPA 351.1, EPA 351.2	16
Ammonia as Nitrogen	WW	TNT831	Equivalent	EPA 350.1, EPA 351.1, EPA 351.2	16
Ammonia as Nitrogen	WW	TNT832	Equivalent	EPA 350.1, EPA 351.1, EPA 351.2	16
Ammonia Nitrogen, Electrode	WW	10001	Equivalent	SM 4500-NH ₃ D, E, F, or G	108
Ammonia Nitrogen, Known Addition, Electrode	WW	10002	Equivalent	SM 4500-NH ₃ D, E, F, or G	108
Ammonia, as Nitrogen, Nessler	WW	8038	Accepted	SM 4500-NH ₃ C	16
Arsenic, Total	WW	8013	Accepted	SM 3500-As B or C	18
BOD	WW	8043	Accepted	SM 5210 B	20
Calcium, Total, Buret	DW	8222	Accepted	SM 3500-Ca B or D	22
Calcium, Total, Buret	WW	8222	Accepted	SM 3500-Ca B or D	22
Chemical Oxygen Demand	WW	8000	Approved	40 CFR 136.3	32
Chemical Oxygen Demand, TNTplus	WW	TNT821/ 8000	Approved	Hach Method 8000, 40 CFR 136.3	32
Chemical Oxygen Demand, TNTplus	WW	TNT822/ 8000	Approved	Hach Method 8000, 40 CFR 136.3	32
Chloride, Mercuric Nitrate, Digital Titration	WW	8206	Equivalent	SM 4500-Cl C	24
Chloride, Silver Nitrate, Buret	WW	8225	Accepted	SM 4500-Cl B	24
Chloride, Silver Nitrate, Digital Titration	WW	8207	Equivalent	SM 4500-Cl B	24
Chlorine, Free, DPD	DW	8021	Accepted	SM 4500-Cl G	25
Chlorine, Free Amperometric Titration	DW	8334	Equivalent	SM 4500-Cl D	26
Chlorine, Free Amperometric Titration	WW	8334	Equivalent	SM 4500-Cl D	26
Chlorine, Total, DPD ULR	DW	8370	Accepted	SM 4500-Cl G	25
Chlorine, Total Amperometric Forward Titration	DW	10026	Accepted	SM 4500-Cl D	26
Chlorine, Free, DPD MR	DW	10245	Accepted	SM 4500-Cl G	28
Chlorine, Free, DPD MR	WW	10245	Accepted	SM 4500-Cl G	28
Chlorine, Free, DPD HR	DW	10069	Accepted	SM 4500-Cl G	26

†DW = Drinking Water; SS = Sewage Sludge; SW = Surface Water; WW = Wastewater

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Chlorine, Free, DPD HR	WW	10069	Accepted	SM 4500-Cl G	26
Chlorine, Free, DPD TNT	DW	10102	Accepted	SM 4500-Cl G	26
Chlorine, Free, DPD TNT	WW	10102	Accepted	SM 4500-Cl G	26
Chlorine, Free and Total, TNTplus	WW	TNT867	Equivalent	SM 4500-Cl G	25
Chlorine, Total Residual, DPD	DW	8167	Accepted	SM 4500-Cl G	25
Chlorine, Total Residual, DPD	WW	8167	Accepted	SM 4500-Cl G	25
Chlorine, Total Residual	DW	8168	Accepted	SM 4500-Cl D	26
Chlorine, Total Residual	WW	8168	Accepted	SM 4500-Cl D	26
Chlorine, Total Residual, Amperometric Back Titration	WW	10025	Accepted	SM 4500-Cl C	26
Chlorine, Total Residual, DPD, ULR	WW	10014	Accepted	SM 4500-Cl G	25
Chlorine, Total, DPD, ULR	DW	8370	Accepted	SM 4500-Cl G	25
Chlorine, Total, DPD, ULR	WW	8370	Accepted	SM 4500-Cl G	25
Chlorine, Total Residual, DPD MR	DW	10250	Accepted	SM 4500-Cl G	28
Chlorine, Total Residual, DPD MR	WW	10250	Accepted	SM 4500-Cl G	28
Chlorine, Total Residual, DPD HR	DW	10070	Accepted	SM 4500-Cl G	26
Chlorine, Total Residual, DPD HR	WW	10070	Accepted	SM 4500-Cl G	26
Chlorine, Total Residual, DPD TNT	DW	10101	Accepted	SM 4500-Cl G	26
Chlorine, Total Residual, DPD TNT	WW	10101	Accepted	SM 4500-Cl G	26
Chlorine Dioxide, DPD/Glycine	DW	10126	Accepted	SM 4500-ClO ₂ D	29
Chromium VI, TNTplus	WW	TNT854	Accepted	SM 3500-Cr B or D	30
Chromium VI, Dissolved	WW	8023	Accepted	SM 3500-Cr B or D	30-31
Coliform, Fecal, EC Medium with/MUG	DW		Approved	SM 9221 D Approved Media	155
Coliform, Total and <i>E. coli</i> , m-ColiBlue24	DW	10029	Approved	40 CFR 141.21, page 349	154
Coliforms, <i>E. coli</i> , m-TEC	SW	8367	Equivalent	EPA 1103.1	154
Coliforms, Fecal and Total, MPN, A1 Medium	DW	8368	Equivalent	SM 9221 B	156
Coliforms, P/A Media	DW		Approved	SM 9221 D Approved Media	155
Conductivity	DW	8160	Accepted	SM 2510 B	97-122
Copper, Bicinchoninate Procedure	WW	8506	Approved	40 CFR 136	35
<i>E. coli</i> in Wastewater	WW	10029	Approved	40 CFR 136	154
<i>E. coli</i> , m-ColiBlue24, Enumeration	SW	10029	Approved	40 CFR 136	154
<i>E. coli</i> , m-ColiBlue24, P/A	DW	10029	Approved	40 CFR 141.21	155
Fecal and Total Coliform	WW	8001	Accepted	SM 9221 B/E	154
Fecal and Total Coliform	DW	8001	Accepted	SM 9221 B/E	154
Fecal and Total Coliform	SW	8001A	Accepted	SM 9221 E	154
Fecal and Total Coliform	SS	8001A	Accepted	SM 9221 E	154
Fecal and Total Coliform	DW	8001A	Accepted	SM 9221 E	154
Fecal Coliform, Sludge, MPN, A1 Medium	WW	10028	Equivalent	SM 9221 D/E	156
Fecal Coliform, Sludge, MPN, LTB/EC Medium	WW	10027	Equivalent	SM 9221 D/E	156
Fecal <i>Streptococci</i> , MPN	WW	8172	Equivalent	SM 9230 B	—
Fluoride, SPADNS	DW	8029	Accepted	SM 4500-F B/D	39
Fluoride, SPADNS	WW	8029	Equivalent	SM 4500-F B/D	39
Fluoride, Electrode	WW	8323	Equivalent	SM 4500-F B or C	39
Fluoride, SPADNS2, Arsenic Free	WW	10225	Equivalent	SM 4500-F B or C	39
Fluoride, SPADNS2, Arsenic Free	DW	10225	Approved	40 CFR 141	39
Hardness, Calcium, Digital Titration	WW	8204	Equivalent	SM 3500-Ca B or D	22
Hardness, Calcium and Total, Buret	WW	8222	Accepted	SM 3500-Ca B or D	43

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Hardness, Total, Buret	WW	8226	Accepted	SM 2340 B or C	42
Hardness, Total, Digital Titration	WW	8213	Equivalent	SM 2340 B or C	42
Hydrogen Ion, pH	WW	8156	Accepted	SM 4500-H+ B	—
Iron, 1,10-Phenanthroline	WW	8008	Approved	40 CFR 136	46
Iron, 1,10-Phenanthroline	WW	TNT858	Equivalent	Hach Method 8008	46
Lead, Total, Voltametry	DW	1001	Approved	40 CFR 141.23	201
Lead, Total, Dithizone	WW	8033	Accepted	SM 3500-Pb B or D	48
Manganese, Periodate Oxidation	WW	8034	Approved	40 CFR 136	49
Nickel, Total	WW	8037	Accepted	SM 3500-Ni D	52
Nitrate, Dimethylphenol	DW	TNT835/ 10206	Approved	40 CFR 141	53
Nitrate, Dimethylphenol	DW	TNT836/ 10206	Approved	40 CFR 141	53
Nitrite as Nitrogen	WW	TNT839/ 8507	Equivalent	EPA 353.2	55
Nitrite as Nitrogen	WW	TNT840/ 8507	Equivalent	EPA 353.2	55
Nitrite Nitrogen	WW	8507	Approved	40 CFR 136	55
Oil and Grease, Gravimetric	WW	10056	Equivalent	EPA 1664 or SM 5220 B	57
Oxygen, Dissolved, Luminescence	WW	10360	Approved	40 CFR 136	97-103
Oxygen, Dissolved, Polarographic	WW	8157	Accepted	SM 4500-O G	104-108
Oxygen, Dissolved, Winkler, Buret	WW	8229	Accepted	SM 4500-O C	37
Oxygen, Dissolved, Digital Titration	WW	8215	Equivalent	SM 4500-O C	37
pH	DW	8156	Accepted	EPA 150.1, 150.2; SM 4500-H+ B	97-122
Phenols, 4AAP	WW	8047	Accepted	EPA 420.1	61
Phosphate, Ortho	WW	8048	Accepted	EPA 365.1	63
Phosphate, Ortho	WW	TNT843/ 8048	Equivalent	EPA 365.1	63
Phosphate, Ortho	WW	TNT844/ 8048	Equivalent	EPA 365.1	63
Phosphate, Ortho	WW	TNT845/ 8048	Equivalent	EPA 365.1	63
Phosphorus, Total	WW	8190	Accepted	EPA 365.1, 365.3	63
Phosphorus, Total	WW	TNT843/ 8190	Equivalent	EPA 365.1, 365.3	63
Phosphorus, Total	WW	TNT844/ 8190	Equivalent	EPA 365.1, 365.3	63
Phosphorus, Total	WW	TNT845/ 8190	Equivalent	EPA 365.1, 365.3	63
Solids, Dissolved	WW	8277	Equivalent	SM 2540 C	—
Solids, Filterable	WW	8163	Equivalent	SM 2540 C	—
Solids, Settleable	WW	8165	Equivalent	SM 2540 F	—
Solids, Total	WW	8271	Equivalent	SM 2540 B	69
Solids, Total Non-filterable	WW	8158	Accepted	SM 2540 D	—
Solids, Volatile, Non-filterable	WW	8164	Equivalent	EPA 160.4	—
Specific Conductance	WW	8160	Accepted	EPA 120.1; SM 2510 B	97-122
Sulfate as SO ₄	WW	8051	Accepted	ASTM D516-90, 02	70
Sulfide as S	WW	8131	Accepted	SM 4500-S ₂ E or F	70
Sulfite as SO ₃ , Buret	WW	8071	Accepted	SM 4500-SO ₃ B	71
Sulfite, Digital Titration	WW	8216	Equivalent	SM 4500-SO ₃ B	71
Turbidity	DW	8195	Approved	40 CFR 141	129-131
Turbidity	DW	GLI	Approved	40 CFR 141	—
Zinc, Zincon	WW	8009	Approved	40 CFR 136.3	78

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