

FS 3700 Automated Chemistry Analyzer Methods

Analyte	Technique	Method	Operating Range	MDL ¹	Throughput	Channel ² Part #	Cartridge Part #
Ammonia	SFA, Gas Diffusion	USEPA 350.1	0.01-20.0 ppm 10.0-20,000 ppb	0.001 ppm 1.0 ppb	40 samples per hour	330109	330094
Ammonia, Nitrogen (Phenate)	FIA	USEPA 350.1	0.01-20 ppm	0.002 ppm	51 samples per hour	330353	330354
Chloride	SFA	Standard Methods 4500-ClE	1.0-200 ppm	0.12 ppm	60 samples per hour	330360	330361
Cyanide; Available (1677)	FIA	OIA-1677-09	0.002-5.00 ppm 2.0-5,000 ppb	0.0005 ppm 0.5 ppb	30 samples per hour	330107	330092
Cyanide; Available (6888) (Sulfide abatement)	FIA	ASTM D6888-09	0.005-0.5 ppm 5.0-500 ppb	0.002 ppm 2.0 ppb	30 samples per hour	330106	330091
Cyanide; Free (D7237)	FIA	ASTM D7237-10	2.0-500 ppb	0.5 ppb	30 samples per hour	330355	330356
Cyanide; Post-Distillation	FIA, Photometric Detection	USEPA 335.4	5.0-500 ppb	0.5 ppb	30 samples per hour	330351	330352
Cyanide; Total	FIA, UV Digestion	ASTM D7511-09	0.003-0.5 ppm 3.0-500 ppb	0.0001 ppm 1.0 ppb	30 samples per hour	330076	330090
Nitrate/Nitrite	FIA	USEPA 353.2	0.01-10.0 ppm 10.0-10,000 ppb	0.001 ppm 1.0 ppb	60 samples per hour	330108	330093
Phenol; In-line distillation	SFA	USEPA 420.4	1.0-500 ppb	0.5 ppb	22 samples per hour	330363	330364
Phenol Post-Distillation	FIA	USEPA 420.4	0.01-2.00 ppm 10.0-2,000 ppb	0.002 ppm 2.0 ppb	90 samples per hour	330110	330083
Phosphorus All Forms	FIA	USEPA 365.1	0.01-5.0 ppm 10.0-5,000 ppb	0.001 ppm 1.0 ppb	60 samples per hour	330111	330096

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Phosphorus All Forms - Low Level	FIA	USEPA 365.1	0.001-0.1 ppm 1.0-100 ppb	0.0003 ppm 0.3 ppb	45 samples per hour	330112	330095
TKN Total Kjeldahl Nitrogen	SFA, Gas Diffusion	USEPA 351.2	0.01-20.0 ppm 10.0-20,000 ppb	0.001 ppm 1.0 ppb	40 samples per hour	330109	330094

¹ Method Detection Limit (MDL) determined in accordance with 40 CFR Part 136 Appendix B

² Channels include the cartridge, detector, and valve (if required).



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