USDA/ARS Methods Catalog

MethodID	OKGRL_LM350.1
Method Name	Ammonia by Automated Colorimetry
Media	Water
Method Type	Laboratory
Method Subcategory	Inorganic
Method Source	U.S. EPA National Exposure R
Source Citation	Methods for the Determination of Inorganic Substances in Environmental Samples (EPA/600/R-93/100)
Method Summary	Alkaline phenol and hypochlorite react with ammonia to form indophenol blue that is proportional to the ammonia concentration. The blue color is intensified with sodium nitroprusside (EPA 350.1).
Instrument	Colorimeter
Detection Limit Type	
DLNote	
Scope - Application	This method determines ammonia in drinking, surface, and saline waters; domestic and industrial wastes.
Concentration Range	0.01 - 2.0
Concentration Units	mg/L
Intereferences	(A) Calcium and Magnesium: Ions of these metals can cause errors by precipitating during analyses. Use EDTA solution (for river and industrial waters) or potassium tartrate solution (for sea water) to reduce this interference. (B) Turbidity: Sample turbi
Precision Notes	Precision and accuracy values were calculated using interlaboratory data from EPA-managed Water Pollution (WP) performance evaluation studies.
QA Requirements	None.
Sampling Handling	Cool to 4oC, add H2SO4 until sample pH < 2.
Max Holding Time	28 days (MCAWW, Table 1).
Sample Prep Methods	
Link To Full Method	http://infotrek.er.usgs.gov/docs/nemi/method_pdf/350.1.pdf
Method Contact	John.D.Ross@ars.usda.gov

Analytes using this Method:

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Analyte: **ammonium** MethodID: OKGRL_LM350.1

Detection level: 0 mg/L

	Instrument	Matrix
Accuracy	0	0
Precision	0	0

False Positive Value: False Positive Value:

Accuracy/Precision Concetration Used: