## **Adipic Acid Production Monitoring Checklist**



**Final Rule: Mandatory Reporting of Greenhouse Gases** 

What Must Be Monitored j	for Each Ad	dipic Acid Pro	duction Unit?
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What Must Be Monitored for Each Adipic Acid Production Unit?  Measure these parameters  Monthly:					
Other	parameters:				
	Number of operating hours in the year (hours)		Annual amount of process $N_2O$ emissions from adipic acid production sold or transferred off site (metric tons)		
	Annual Emission Fa	ictor ]	Determination:		
or whe	ies must conduct a performance test to calcular never the adipic acid production process is cha exanol or by installing abatement equipment.	anged b	y altering the ratio of cyclohexanone to		
	Measure N <sub>2</sub> O emissions at the vent stream from the nitric acid oxidation step of the adipic acid production process using test methods specified in the rule		Calculate a process-specific emission factor for each adipic acid production unit as defined in subpart E of the rule		
	Measure the production rate during the test, and calculate the production rate for the test period in metric tons per hour				

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During the performance test the following must also be monitored:						
	$N_2O$ concentration per test run (parts per million $N_2O$ )		Volumetric flow rate of effluent gas (dry standard cubic feet/hr)			
	Production rate per test run (tons adipic acid produced/hour)					
Determine Abatement Efficiency:						
For each $N_2O$ abatement technology, the destruction efficiency must be determined using one of the following:						
	The destruction efficiency specified by the manufacturer					
	Calculate the destruction efficiency using process knowledge					
	Conduct a performance test					

## If an $N_2O$ abatement technology is used, measure the following parameters:

Annual adipic acid production during	Destruction efficiency of N <sub>2</sub> O abatement
which N <sub>2</sub> O abatement was used	technology (abatement device destruction
	efficiency, percent of N <sub>2</sub> O removed from
	air stream)
Total annual adipic acid production	
(tons acid produced)	

See also the information sheet for Adipic Acid Production (EPA-430-F-09-038R at: www.epa.gov/ghgreporting/documents/pdf/infosheets/adipicacidproduction.pdf.

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