

Caprolactam, Glyoxal, and Glyoxylic Acid Production

Subpart YY, Greenhouse Gas Reporting Program



What Must Be Monitored?

Facility producing caprolactam (C₆H₁₁NO), glyoxal (C₂H₂O₂), or glyoxylic acid (C₂H₂O₃):

- Annual C₆H₁₁NO production capacity from all process lines (metric tons).
- Annual C₂H₂O₂ production capacity from all process lines (metric tons).
- Annual C₂H₂O₃ production capacity from all process lines (metric tons).
- Number of process lines producing each product (C₆H₁₁NO, C₂H₂O₂, and C₂H₂O₃).

Process line producing C₆H₁₁NO, C₂H₂O₂, or C₂H₂O₃:

- Monthly production of product (C₆H₁₁NO, C₂H₂O₂, or C₂H₂O₃) (metric tons).
- Total number of hours during each month that product (C₆H₁₁NO, C₂H₂O₂, or C₂H₂O₃) was produced from the process line (hours).

Nitrous oxide (N₂O) abatement technology associated with C₆H₁₁NO, C₂H₂O₂, or C₂H₂O₃ process line(s):

- Destruction efficiency (DE) (decimal fraction of N₂O removed from vent stream).
- Total number of hours during each month that product (C₆H₁₁NO, C₂H₂O₂, or C₂H₂O₃) was produced while the abatement technology was operational (hours).



For More Information

For additional information and resources on Subpart YY, please visit the [Subpart YY webpage](#).

This monitoring checklist is provided solely for informational purposes. It does not replace the need to read and comply with the regulatory text contained in the rule. Rather, it is intended to help reporting facilities and suppliers understand key provisions of the GHGRP. It does not provide legal advice; have a legally binding effect; or expressly or implicitly create, expand, or limit any legal rights, obligations, responsibilities, expectations, or benefits with regard to any person or entity.