

SNAP CODE: 091005

SOURCE ACTIVITY TITLE: OTHER WASTE TREATMENT  
Compost Production from Waste

NOSE CODE: 109.07.21

NFR CODE: 6 D

## 1 ACTIVITIES INCLUDED

This chapter covers compost production from organic waste.

## 2 CONTRIBUTION TO TOTAL EMISSIONS

**Table 1: Contribution to total emissions of the CORINAIR90 inventory (28 countries)**

Source-activity	SNAP-code*	Contribution to total emissions [%]							
		SO <sub>2</sub>	NO <sub>x</sub>	NMVOC	CH <sub>4</sub>	CO	CO <sub>2</sub>	N <sub>2</sub> O	NH <sub>3</sub>
Compost Production from Waste	091005	-	-	-	0.1	-	0.6	-	-

\* = SNAP90 code 090500

0 = emissions are reported, but the exact value is below the rounding limit (0.1 per cent)

- = no emissions are reported

## 3 GENERAL

### 3.1 Description

In many areas organic domestic waste is gathered separately. Composting the organic waste produces a reusable product. The main emissions to be expected have to do with odour and abatement methods are directed at reducing the odour. Also a small amount of ammonia is produced.

## 4 SIMPLER METHODOLOGY

The simpler methodology would be to multiply the activity level by the ammonia emission factor to provide the ammonia emission.

## 5 DETAILED METHODOLOGY

## **6 RELEVANT ACTIVITY STATISTICS**

Standard statistics on amounts of organic domestic waste produced.

## **7 POINT SOURCE CRITERIA**

## **8 EMISSION FACTORS, QUALITY CODES AND REFERENCES**

The amount of ammonia produced by composting domestic organic waste is estimated to be about 240 gram ammonia per ton organic waste. Using a biofilter with an efficiency of 90% reduces this amount to 24 gram per ton waste. The accuracy of this figure is estimated as D.

## **9 SPECIES PROFILES**

## **10 UNCERTAINTY ESTIMATES**

## **11 WEAKEST ASPECTS/PRIORITY AREAS FOR IMPROVEMENT IN CURRENT METHODOLOGY**

## **12 SPATIAL DISAGGREGATION CRITERIA FOR AREA SOURCES**

## **13 TEMPORAL DISAGGREGATION CRITERIA**

Emissions from composting organic waste can be regarded as continuous.

## **14 ADDITIONAL COMMENTS**

## **15 SUPPLEMENTARY DOCUMENTS**

## **16 VERIFICATION PROCEDURES**

## 17 REFERENCES

Milieu-effect rapport GECO 400 VAM NV. (1994)

C. Peek, RIVM, personal communication, 1995.

## 18 BIBLIOGRAPHY

## 19 RELEASE VERSION, DATE AND SOURCE

Version : 1

Date : November 1995

Source : P F J van der Most  
TNO  
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## 20 POINT OF ENQUIRY

Any comments on this chapter or enquiries should be directed to:

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