

UREA – suggested spectral and analytical methods for identification

EC#: 200-315-5

CAS#: 57-13-6

Mono-constituent substance

Purity: > 80 %

Typical Impurity: Biuret (EC# : 203-559-0): up to 2 %

No impurities relevant for the classification and/or PBT assessment.

Please be aware, that the substance identity, including all impurities, needs to be specified in the individual part of the registration dossier. You have to make sure, that the substance and its impurities amounts 100 % of the composition.

Analytical Information

We suggest conducting the substance identification with 2 methods:

- Identification of urea using an **IR or NMR spectrum**

We suggest conducting the quantification as follows:

- Quantification of urea and biuret according to **Regulation (EC) No 2003/2003** (legally required for fertilizer applications) or
- Quantification of urea and biuret by **HPLC**

Reference:

Determination of biuret and urea by high-performance liquid chromatography
Grossenbacher, et al., 1985
Journal of Chromatography A, Volume 331, Pages 161–167

Particle Size Range (Granulometry): 0.1 mm to 5 mm

The **granulometry** is part of the joint registration dossier. We will include data from the Lead Registrant manufactured urea, as well as single data from both ends of the range. Each company will then submit their data in their own dossier, demonstrating that they comply with the agreed specification.

REACH Implementation Team

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Lead Registrant for Urea

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