

## Analytical Methods

### Potassium Nitrate, Sodium Nitrate and Urea Phosphate

#### *Introduction:*

REACH requires each registrant to identify its substance in the member dossier. To characterize substances, several methods can be used. The following methods are recommended by the FARM Consortium in order to fulfill REACH requirements.

#### Spectral data:

- ➔ UV-Vis: a statement should be written that the analysis is not suitable for conclusive identification.
- ➔ Nuclear magnetic resonance spectrum (NMR): a statement should be written that the analysis is not suitable for conclusive identification.
- ➔ Infra-red spectrum (IR): should be provided.
- ➔ X-ray diffraction (XRD): should be provided.

In addition to spectral data, methods of chemical analyses should also be described. Analyses should be described for the main constituent as well as for the main impurities. It is recommended:

- ➔ ion and ion exclusion chromatography to measure anionic and cationic impurities.
- ➔ for major components (N, P, K, Na, Ca, Mg) in each product, methods according to European Regulations No 2003/2003 and No 223/2012.