

Overview of measurement uncertainties for biowaste

The specified measurement uncertainties were in accordance with DIN ISO 11352 (2013-03) determined and correspond to the combined, relative expanded measurement uncertainties (k=2, P=95%).

Section 3.2

Parameter	Measuring principle	Norm	Measurement uncertainties
Lead	ICP-MS	DIN EN ISO 17294- 2 (2005-02)	25 %
Lead	ICP-OES	DIN EN ISO 22036 (2009-06)	25 %
Cadmium	ICP-MS	DIN EN ISO 11885 (2009-09)	25 %
Cadmium	ICP-OES	DIN EN ISO 17294- 2 (2005-02)	25 %
Chromium	ICP-MS	DIN EN ISO 22036 (2009-06)	25 %
Chromium	ICP-OES	DIN EN ISO 11885 (2009-09)	35 %
Copper	ICP-MS	DIN EN ISO 17294- 2 (2005-02)	25 %
Copper	ICP-OES	DIN EN ISO 22036 (2009-06)	25 %
Nickel	ICP-MS	DIN EN ISO 11885 (2009-09)	30 %
Nickel	ICP-OES	DIN EN ISO 17294- 2 (2005-02)	30 %
Zinc	ICP-MS	DIN EN ISO 22036 (2009-06)	20 %
Zinc	ICP-OES	DIN EN ISO 11885 (2009-09)	20 %
Mercury	ICP-MS	DIN EN ISO 17294- 2 (2005-02)	25 %
Mercury	AAS	DIN EN ISO 22036 (2009-06)	25 %

Section 3.3

Parameter	Measuring principle	Norm	Measurement uncertainties
Dry residue	Gravimetry	DIN EN 13040 (2007-02)	10 %
pH-value	Electrode	DIN EN 13037 (2000-02)	10 %
Salinity	Electrode	DIN EN 13038 (2000-02)	10 %
Organic substance as loss on ignition	Gravimetry	DIN EN 13039 (2000-02)	10 %
Stones and foreign matter	Organoleptic	Anhang 3 BioAbfV, Nr. 1.3.3	No information