

Specification

Magnesia 416451
tri-Magnesium dicitrate,
anhydrous, EP, E 345(i)

Article No.: 6416451
Specification Type: Standard
Version: 2
Issue Date: 08.02.2024

Appearance	white or almost white, fine, slightly hygroscopic powder
Odour	none
Solubility	soluble in water, practically insoluble in ethanol (96 %). It dissolves in dilute hydrochloric acid.
Assay	92.8 - 102.1 %
Mg (dried substance)	15.0 - 16.5 %
Identification	complies
Appearance of solution	complies
Oxalate	Max. 280 ppm
SO ₄	Max. 0.2 %
Ca	Max. 0.2 %
Iron	Max. 100 ppm
Heavy Metals	Max. 10 ppm
Pb	Max. 1 ppm
As	Max. 1 ppm
Cd	Max. 0.1 ppm
Hg	Max. 0.1 ppm
Loss on drying (180 °C, 5 h)	Max. 3.5 %
pH value (5 % solution)	6.0 - 8.5
Particle size	by STEM method - medium (D50) particle size (number-based) not below 130 nm by laser diffraction method - medium (D50) particle size (mass-based) not below 50 µm
Not identified material	no process or product related impurities. The unintended presence of hydrated forms of trimagnesium dicitrate such as the nonahydrate cannot be excluded.

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Parameters indicated in this specification are based on our current, carefully determined knowledge. It is the users own responsibility to test and analyze materials and therefore corroborate that products are adequate for their applications.

MAGNESIA GMBH

Max-Jenne-Straße 2-4
21337 Lüneburg, Germany
Phone: +49-4131-8710-0

Management

Markus Cording, Johann Studtmann
Amtsgericht Lüneburg, HRB 629
USt-IdNr. DE116079431

Commerzbank AG

Lüneburg
IBAN DE05 2404 0000 0436 0707 00
SWIFT-BIC COBADEFF240

Deutsche Bank AG

Lüneburg
IBAN DE92 2407 0075 0033 3310 00
SWIFT-BIC DEUTDE2H240