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Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 231/2012, E 464 HYDROXYPROPYL METHYL CELLULOSE. (See end of Document for details)

ANNEX

E 464 HYDROXYPROPYL METHYL CELLULOSE

Synonyms	
Definition	Hydroxypropyl methyl cellulose is cellulose obtained directly from strains of fibrous plant material and partially etherified with methyl groups and containing a small degree of hydroxypropyl substitution
Einecs	
Chemical name	2-Hydroxypropyl ether of methylcellulose
Chemical formula	The polymers contain substituted anhydroglucose units with the following general formula: C ₆ H ₇ O ₂ (OR ₁)(OR ₂)(OR ₃), where R ₁ , R ₂ , R ₃ each may be one of the following: — H — CH ₃ — CH ₂ CHOHCH ₃ — CH ₂ CHOHCH ₃ — CH ₂ CHO[CH ₂ CHOHCH ₃) CH ₃ — CH ₂ CHO[CH ₂ CHO — (CH ₂ CHOHCH ₃) CH ₃]CH ₃
Molecular weight	From about 13 000 to 200 000
Assay	Content not less than 19 % and not more than 30 % methoxyl groups (-OCH ₃) and not less than 3 % and not more than 12 % hydroxypropoxyl groups (-OCH ₂ CHOHCH ₃), on the anhydrous basis
Description	Slightly hygroscopic white or slightly yellowish or greyish odourless and tasteless, granular or fibrous powder
Identification	
Solubility	Swelling in water, producing a clear to opalescent, viscous, colloidal solution. Insoluble in ethanol
Gas chromatography	Determine the substituents by gas chromatography
рН	Not less than 5,0 and not more than 8,0 (1 % colloidal solution)
Purity	
Loss on drying	Not more than 10 % (105 °C, 3 hours)
Sulphated ash	Not more than 1,5 % for products with viscosities of 50 mPa.s or above

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for...

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	Not more than 3 % for products with viscosities below 50 mPa.s
Propylene chlorohydrins	Not more than 0,1 mg/kg
Arsenic	Not more than 3 mg/kg
Lead	Not more than 2 mg/kg
Mercury	Not more than 1 mg/kg
Cadmium	Not more than 1 mg/kg

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