

EN

ANNEX

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: emulsifiers								
1c460i	Microcrystalline cellulose	Additive composition Microcrystalline cellulose ≥ 97 % (calculated as cellulose on the anhydrous basis) Solid form Characterisation of the active substance Microcrystalline cellulose manufactured from wood pulp partially depolymerised with a hydrolysis process obtained with heat and mineral acid. CAS No: 9004-34-6 Loss on drying: ≤ 7 % Water-soluble matters: ≤ 0,24 % Sulfated ash: ≤ 0,5 % Starch: not detectable Carboxyl groups ≤ 1 %	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: emulsifiers								
		Particle size: ≤ 10 % of particles of less than 5 µm Analytical method¹ For the identification/characterisation of microcrystalline cellulose in the feed additive: - Commission Regulation (EU) No 231/2012 ² for microcrystalline cellulose and the corresponding methods of the FAO JECFA 'microcrystalline cellulose' monograph and the 'volume 4' of FAO JECFA combined compendium for food additives specifications						

¹ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

² Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: stabilisers								
1c460i	Microcrystalline cellulose	Additive composition Microcrystalline cellulose ≥ 97 % (calculated as cellulose on the anhydrous basis) Solid form Characterisation of the active substance Microcrystalline cellulose manufactured from wood pulp partially depolymerised with a hydrolysis process obtained with heat and mineral acid. CAS No: 9004-34-6 Loss on drying: ≤ 7 % Water-soluble matters: ≤ 0,24 % Sulfated ash: ≤ 0,5 % Carboxyl groups ≤ 1 % Particle size: ≤ 10 % of particles of less than 5 µm Analytical method ³	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

³ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: stabilisers								
		For the identification/characterisation of microcrystalline cellulose in the feed additive: - Commission Regulation (EU) No 231/2012 ⁴ for microcrystalline cellulose and the corresponding methods of the FAO JECFA 'microcrystalline cellulose' monograph and the 'volume 4' of FAO JECFA combined compendium for food additives specifications						

⁴ Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: thickeners								
1c460i	Microcrystalline cellulose	Additive composition Microcrystalline cellulose ≥ 97 % (calculated as cellulose on the anhydrous basis) Solid form Characterisation of the active substance Microcrystalline cellulose manufactured from wood pulp partially depolymerised with a hydrolysis process obtained with heat and mineral acid. CAS No: 9004-34-6 Loss on drying: ≤ 7 % Water-soluble matters: ≤ 0,24 % Sulfated ash: ≤ 0,5 % Carboxyl groups ≤ 1 % Particle size: ≤ 10 % of particles of less than 5 µm Analytical method⁵	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

⁵ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: thickeners								
		For the identification/characterisation of microcrystalline cellulose in the feed additive: - Commission Regulation (EU) No 231/2012 ⁶ for microcrystalline cellulose and the corresponding methods of the FAO JECFA 'microcrystalline cellulose' monograph and the 'volume 4' of FAO JECFA combined compendium for food additives specifications						

⁶ Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: gelling agents								
1c460i	Microcrystalline cellulose	Additive composition Microcrystalline cellulose ≥ 97 % (calculated as cellulose on the anhydrous basis) Solid form Characterisation of the active substance Microcrystalline cellulose manufactured from wood pulp partially depolymerised with a hydrolysis process obtained with heat and mineral acid. CAS No: 9004-34-6 Loss on drying: ≤ 7 % Water-soluble matters: ≤ 0,24 % Sulfated ash: ≤ 0,5 % Carboxyl groups ≤ 1 % Particle size: ≤ 10 % of particles of less than 5 µm Analytical method ⁷	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

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Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: gelling agents								
		For the identification/characterisation of microcrystalline cellulose in the feed additive: - Commission Regulation (EU) No 231/2012 ⁸ for microcrystalline cellulose and the corresponding methods of the FAO JECFA 'microcrystalline cellulose' monograph and the 'volume 4' of FAO JECFA combined compendium for food additives specifications						

⁸ Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: binders								
1c460i	Microcrystalline cellulose	Additive composition Microcrystalline cellulose ≥ 97 % (calculated as cellulose on the anhydrous basis) Solid form Characterisation of the active substance Microcrystalline cellulose manufactured from wood pulp partially depolymerised with a hydrolysis process obtained with heat and mineral acid. CAS No: 9004-34-6 Loss on drying: ≤ 7 % Water-soluble matters: ≤ 0,24 % Sulfated ash: ≤ 0.5 % Carboxyl groups ≤ 1 % Particle size: ≤ 10 % of particles of less than 5 µm Analytical method ⁹	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

⁹ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: binders								
		For the identification/characterisation of microcrystalline cellulose in the feed additive: - Commission Regulation (EU) No 231/2012 ¹⁰ for microcrystalline cellulose and the corresponding methods of the FAO JECFA 'microcrystalline cellulose' monograph and the 'volume 4' of FAO JECFA combined compendium for food additives specifications						

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Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: emulsifiers								
1c461	Methyl cellulose	Additive composition Methyl cellulose Solid form Characterisation of the active substance Methyl cellulose obtained from wood pulp or cotton by treatment with alkali and methylation of the alkali cellulose with methyl chloride. CAS No: 9004-67-5 Content not less than 25 % and not more than 33 % of methoxyl groups (-OCH ₃) and not more than 5 % of hydroxyethoxyl groups (-OCH ₂ CH ₂ OH) Loss on drying: ≤ 10 % Sulfated ash: ≤ 1,5 % Analytical method ¹¹ For the identification/characterisation of methyl cellulose in the feed additive:	All animal species	-	-	-	<div>1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated.</div> <div>2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.</div>	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

¹¹ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identification number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisation
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: emulsifiers								
		- Commission Regulation (EU) No 231/2012 ¹² for methyl cellulose and the corresponding methods of the FAO JECFA 'Methyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopoeia monograph 0345						

¹² Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: stabilisers								
1c461	Methyl cellulose	Additive composition Methyl cellulose Solid form Characterisation of the active substance Methyl cellulose obtained from wood pulp or cotton by treatment with alkali and methylation of the alkali cellulose with methyl chloride. CAS No: 9004-67-5 Content not less than 25 % and not more than 33 % of methoxyl groups (-OCH ₃) and not more than 5 % of hydroxyethoxyl groups (-OCH ₂ CH ₂ OH) Loss on drying: ≤ 10 % Sulfated ash: ≤ 1,5 % Analytical method ¹³ For the identification/characterisation of methyl cellulose in the feed additive:	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

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Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: stabilisers								
		- Commission Regulation (EU) No 231/2012 ¹⁴ for methyl cellulose and the corresponding methods of the FAO JECFA 'Methyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopoeia monograph 0345						

¹⁴ Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: thickeners								
1c461	Methyl cellulose	Additive composition Methyl cellulose Solid form Characterisation of the active substance Methyl cellulose obtained from wood pulp or cotton by treatment with alkali and methylation of the alkali cellulose with methyl chloride. CAS No: 9004-67-5 Content not less than 25 % and not more than 33 % of methoxyl groups (-OCH ₃) and not more than 5 % of hydroxyethoxyl groups (-OCH ₂ CH ₂ OH) Loss on drying: ≤ 10 % Sulfated ash: ≤ 1,5 % Analytical method ¹⁵ For the identification/characterisation of methyl cellulose in the feed additive:	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

¹⁵ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: thickeners								
		- Commission Regulation (EU) No 231/2012 ¹⁶ for methyl cellulose and the corresponding methods of the FAO JECFA 'Methyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopoeia monograph 0345						

¹⁶ Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: gelling agents								
1c461	Methyl cellulose	Additive composition Methyl cellulose Solid form Characterisation of the active substance Methyl cellulose obtained from wood pulp or cotton by treatment with alkali and methylation of the alkali cellulose with methyl chloride. CAS No: 9004-67-5 Content not less than 25 % and not more than 33 % of methoxyl groups (-OCH ₃) and not more than 5 % of hydroxyethoxyl groups (-OCH ₂ CH ₂ OH) Loss on drying: ≤ 10 % Sulfated ash: ≤ 1,5 % Analytical method ¹⁷ For the identification/characterisation of methyl cellulose in the feed additive:	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

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Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: gelling agents								
		- Commission Regulation (EU) No 231/2012 ¹⁸ for methyl cellulose and the corresponding methods of the FAO JECFA 'Methyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopoeia monograph 0345						

¹⁸ Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: binders								
1c461	Methyl cellulose	Additive composition Methyl cellulose Solid form Characterisation of the active substance Methyl cellulose obtained from wood pulp or cotton by treatment with alkali and methylation of the alkali cellulose with methyl chloride. CAS No: 9004-67-5 Content not less than 25 % and not more than 33 % of methoxyl groups (-OCH ₃) and not more than 5 % of hydroxyethoxyl groups (-OCH ₂ CH ₂ OH) Loss on drying: ≤ 10 % Sulfated ash: ≤ 1,5 % Analytical method ¹⁹ For the identification/characterisation of methyl cellulose in the feed additive:	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

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Identification number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisation
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: binders								
		- Commission Regulation (EU) No 231/2012 ²⁰ for methyl cellulose and the corresponding methods of the FAO JECFA 'Methyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopoeia monograph 0345						

²⁰ Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: stabilisers								
1d462	Ethyl cellulose	Additive composition Ethyl cellulose Solid form Characterisation of the active substance Ethyl cellulose, obtained by reaction of partially depolymerised cellulose with ethyl chloride. Ethoxyl groups (-OC ₂ H ₅): ≥ 44 % and ≤ 50% on the dried basis (equivalent to not more than 2,6 ethoxyl groups per anhydroglucose unit) CAS No: 9004-57-3 Loss on drying: ≤ 3% Sulfated ash: ≤ 0,4 % Analytical method ²¹ For the identification/characterisation of ethyl cellulose in the feed additive: - Commission Regulation (EU) No 231/2012 ²² for ethyl cellulose and the	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

²¹ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

²² Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: stabilisers								
		corresponding methods described in the FAO JECFA 'Ethyl cellulose' monograph and the European Pharmacopoeia monograph 0822						

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: emulsifiers								
1c463	Hydroxypropyl cellulose	Additive composition Hydroxypropyl cellulose Solid form Characterisation of the active substance Hydroxypropyl cellulose, obtained by partial etherification of cellulose from fibrous plant material with hydroxypropyl groups Hydroxypropyl groups (-OCH ₂ CHOHCH ₃): ≤ 80.5 % equivalent to not more than 4,6 hydroxypropyl groups per anhydroglucose unit on the anhydrous basis CAS No: 9004-64-2 Loss on drying: ≤ 10 % Sulfated ash: ≤ 0,5 % Propylene chlorohydrins ≤ 0,1 mg/kg Analytical method ²³	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

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		<p>For the identification/characterisation of hydroxypropyl cellulose in the feed additive:</p> <ul style="list-style-type: none"> - Commission Regulation (EU) No 231/2012²⁴ for hydroxypropyl cellulose and the corresponding methods of FAO JECFA 'hydroxypropyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopeia monograph 0337 						
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Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: stabilizers								
1c463	Hydroxypropyl cellulose	Additive composition Hydroxypropyl cellulose Solid form Characterisation of the active substance Hydroxypropyl cellulose, obtained by partial etherification of cellulose from fibrous plant material with hydroxypropyl groups Hydroxypropyl groups (-OCH ₂ CHOHCH ₃): ≤ 80.5 % equivalent to not more than 4,6 hydroxypropyl groups per anhydroglucose unit on the anhydrous basis CAS No: 9004-64-2 Loss on drying: ≤ 10 % Sulfated ash: ≤ 0,5 % Propylene chlorohydrins ≤ 0,1 mg/kg	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

		<p>Analytical method²⁵ For the identification/characterisation of hydroxypropyl cellulose in the feed additive:</p> <ul style="list-style-type: none"> - Commission Regulation (EU) No 231/2012²⁶ for hydroxypropyl cellulose and the corresponding methods of FAO JECFA 'hydroxypropyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopeia monograph 0337 						
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²⁵ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

²⁶ Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: thickeners								
1c463	Hydroxypropyl cellulose	Additive composition Hydroxypropyl cellulose Solid form Characterisation of the active substance Hydroxypropyl cellulose, obtained by partial etherification of cellulose from fibrous plant material with hydroxypropyl groups Hydroxypropyl groups (-OCH ₂ CHOHCH ₃): ≤ 80.5 % equivalent to not more than 4,6 hydroxypropyl groups per anhydroglucose unit on the anhydrous basis CAS No: 9004-64-2 Loss on drying: ≤ 10 % Sulfated ash: ≤ 0,5 % Propylene chlorohydrins ≤ 0,1 mg/kg Analytical method ²⁷	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

²⁷

Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

		<p>For the identification/characterisation of hydroxypropyl cellulose in the feed additive:</p> <ul style="list-style-type: none"> - Commission Regulation (EU) No 231/2012²⁸ for hydroxypropyl cellulose and the corresponding methods of FAO JECFA 'hydroxypropyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopeia monograph 0337 						
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²⁸

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: gelling agents								
1c463	Hydroxypropyl cellulose	Additive composition Hydroxypropyl cellulose Solid form Characterisation of the active substance Hydroxypropyl cellulose, obtained by partial etherification of cellulose from fibrous plant material with hydroxypropyl groups Hydroxypropyl groups (-OCH ₂ CHOHCH ₃): ≤ 80.5 % equivalent to not more than 4,6 hydroxypropyl groups per anhydroglucose unit on the anhydrous basis CAS No: 9004-64-2 Loss on drying: ≤ 10 % Sulfated ash: ≤ 0,5 % Propylene chlorohydrins ≤ 0,1 mg/kg	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

		<p>Analytical method²⁹ For the identification/characterisation of hydroxypropyl cellulose in the feed additive:</p> <ul style="list-style-type: none"> - Commission Regulation (EU) No 231/2012³⁰ for hydroxypropyl cellulose and the corresponding methods of FAO JECFA 'hydroxypropyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopeia monograph 0337 						
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²⁹ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

³⁰ Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Specie s or catego ry of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: emulsifiers								
1c464	Hydroxypropyl methyl cellulose	Additive composition Hydroxypropyl methyl cellulose Solid form Characterisation of the active substance Hydroxypropyl methyl cellulose manufactured reacting partially depolymerised cellulose with methyl groups and containing a small degree of hydroxypropyl substitution. CAS No: 9004-65-3 Methoxyl groups (-OCH ₃) 19-30 % Hydroxypropoxyl groups (-CH ₂ CHOHCH ₃): 3-12 % Loss on drying: ≤ 10 % Sulfated ash: ≤ 1,5 % (for products with viscosity of 50 mPa.s or above); ≤ 3 % (for products with viscosity below 50 mPa.s) Propylene chlorohydrins: ≤ 0,1 mg/kg Analytical method ³¹	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

³¹ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Specie s or catego ry of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: emulsifiers								
		For the identification/characterisation of hydroxypropyl methyl cellulose in the feed additive: - Commission Regulation (EU) No 231/2012 ³² for hydroxypropyl methyl cellulose and the corresponding methods of the FAO JECFA 'Hydroxypropyl methyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopoeia monograph 0348						

³² Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Specie s or catego ry of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: stabilisers								
1c464	Hydroxypropyl methyl cellulose	Additive composition Hydroxypropyl methyl cellulose Solid form Characterisation of the active substance Hydroxypropyl methyl cellulose manufactured reacting partially depolymerised cellulose with methyl groups and containing a small degree of hydroxypropyl substitution. CAS No: 9004-65-3 Methoxyl groups (-OCH ₃) 19-30 % Hydroxypropoxyl groups (-CH ₂ CHOHCH ₃): 3-12 % Loss on drying: ≤ 10 % Sulfated ash: ≤ 1,5 % (for products with viscosity of 50 mPa.s or above); ≤ 3 % (for products with viscosity below 50 mPa.s) Propylene chlorohydrins: ≤ 0,1 mg/kg Analytical method ³³	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

³³ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Specie s or catego ry of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: stabilisers								
		For the identification/characterisation of hydroxypropyl methyl cellulose in the feed additive: - Commission Regulation (EU) No 231/2012 ³⁴ for hydroxypropyl methyl cellulose and the corresponding methods of the FAO JECFA 'Hydroxypropyl methyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopoeia monograph 0348						

³⁴

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Specie s or catego ry of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: thickeners								
1c464	Hydroxypropyl methyl cellulose	Additive composition Hydroxypropyl methyl cellulose Solid form Characterisation of the active substance Hydroxypropyl methyl cellulose manufactured reacting partially depolymerised cellulose with methyl groups and containing a small degree of hydroxypropyl substitution. CAS No: 9004-65-3 Methoxyl groups (-OCH ₃) 19-30 % Hydroxypropoxyl groups (-CH ₂ CHOHCH ₃): 3-12 % Loss on drying: ≤ 10 % Sulfated ash: ≤ 1,5 % (for products with viscosity of 50 mPa.s or above); ≤ 3 % (for products with viscosity below 50 mPa.s) Propylene chlorohydrins: ≤ 0,1 mg/kg Analytical method ³⁵	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

³⁵

Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Specie s or catego ry of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: thickeners								
		For the identification/characterisation of hydroxypropyl methyl cellulose in the feed additive: - Commission Regulation (EU) No 231/2012 ³⁶ for hydroxypropyl methyl cellulose and the corresponding methods of the FAO JECFA 'Hydroxypropyl methyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopoeia monograph 0348						

³⁶

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Specie s or catego ry of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: gelling agents								
1c464	Hydroxypropyl methyl cellulose	Additive composition Hydroxypropyl methyl cellulose Solid form Characterisation of the active substance Hydroxypropyl methyl cellulose manufactured reacting partially depolymerised cellulose with methyl groups and containing a small degree of hydroxypropyl substitution. CAS No: 9004-65-3 Methoxyl groups (-OCH ₃) 19-30 % Hydroxypropoxyl groups (-CH ₂ CHOHCH ₃): 3-12 % Loss on drying: ≤ 10 % Sulfated ash: ≤ 1,5 % (for products with viscosity of 50 mPa.s or above); ≤ 3 % (for products with viscosity below 50 mPa.s) Propylene chlorohydrins: ≤ 0,1 mg/kg Analytical method ³⁷	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

³⁷

Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Specie s or catego ry of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: gelling agents								
		For the identification/characterisation of hydroxypropyl methyl cellulose in the feed additive: - Commission Regulation (EU) No 231/2012 ³⁸ for hydroxypropyl methyl cellulose and the corresponding methods of the FAO JECFA 'Hydroxypropyl methyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopoeia monograph 0348						

³⁸

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Specie s or catego ry of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: binders								
1c464	Hydroxypropyl methyl cellulose	Additive composition Hydroxypropyl methyl cellulose Solid form Characterisation of the active substance Hydroxypropyl methyl cellulose manufactured reacting partially depolymerised cellulose with methyl groups and containing a small degree of hydroxypropyl substitution. CAS No: 9004-65-3 Methoxyl groups (-OCH ₃) 19-30 % Hydroxypropoxyl groups (-CH ₂ CHOHCH ₃): 3-12 % Loss on drying: ≤ 10 % Sulfated ash: ≤ 1,5 % (for products with viscosity of 50 mPa.s or above); ≤ 3 % (for products with viscosity below 50 mPa.s) Propylene chlorohydrins: ≤ 0,1 mg/kg Analytical method ³⁹	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

³⁹ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Specie s or catego ry of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: binders								
		For the identification/characterisation of hydroxypropyl methyl cellulose in the feed additive: - Commission Regulation (EU) No 231/2012 ⁴⁰ for hydroxypropyl methyl cellulose and the corresponding methods of the FAO JECFA 'Hydroxypropyl methyl cellulose' monograph, the 'volume 4' of FAO JECFA combined compendium for food additives specifications and the European Pharmacopoeia monograph 0348						

⁴⁰

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: emulsifiers								
1c466	Sodium carboxymethyl cellulose	Additive composition Sodium carboxymethyl cellulose ≥ 99.5 % (on the anhydrous basis) Solid form Characterisation of the active substance Sodium carboxymethyl cellulose, obtained by etherification reaction between the alkali-cellulose complex and monochloroacetic acid CAS No: 9000-32-4 Carboxymethyl groups (-CH ₂ COOH): 0.2- 1.5 per anydroglucose unit Loss on drying: ≤ 12 % Total glycolate: ≤ 0,4 % (as sodium glycolate on the anhydrous basis) Sodium: ≤ 12,4 % (on the anhydrous basis) Analytical method ⁴¹	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

⁴¹ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: emulsifiers								
		For the identification/characterisation of sodium carboxymethyl cellulose in the feed additive: – Commission Regulation (EU) No 231/2012 ⁴² for sodium carboxymethyl cellulose and the corresponding methods of FAO JECFA 'sodium carboxymethyl cellulose' monograph and the 'volume 4' of FAO JECFA combined compendium for food additives specifications.						

⁴²

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: stabilisers								
1c466	Sodium carboxymethyl cellulose	Additive composition Sodium carboxymethyl cellulose ≥ 99.5 % (on the anhydrous basis) Solid form Characterisation of the active substance Sodium carboxymethyl cellulose, obtained by etherification reaction between the alkali-cellulose complex and monochloroacetic acid CAS No: 9000-32-4 Carboxymethyl groups (-CH ₂ COOH): 0.2- 1.5 per anydroglucose unit Loss on drying: ≤ 12 % Total glycolate: ≤ 0.4 % (as sodium glycolate on the anhydrous basis) Sodium: ≤ 12,4 % (on the anhydrous basis) Analytical method ⁴³	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

⁴³

Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: stabilisers								
		For the identification/characterisation of sodium carboxymethyl cellulose in the feed additive: – Commission Regulation (EU) No 231/2012 ⁴⁴ for sodium carboxymethyl cellulose and the corresponding methods of FAO JECFA 'sodium carboxymethyl cellulose' monograph and the 'volume 4' of FAO JECFA combined compendium for food additives specifications.						

⁴⁴

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: thickeners								
1c466	Sodium carboxymethyl cellulose	Additive composition Sodium carboxymethyl cellulose ≥ 99,5 % (on the anhydrous basis) Solid form Characterisation of the active substance Sodium carboxymethyl cellulose, obtained by etherification reaction between the alkali-cellulose complex and monochloroacetic acid CAS No: 9000-32-4 Carboxymethyl groups (-CH ₂ COOH): 0.2- 1.5 per anydroglucose unit Loss on drying: ≤ 12 % Total glycolate: ≤ 0,4 % (as sodium glycolate on the anhydrous basis) Sodium: ≤ 12,4 % (on the anhydrous basis) Analytical method ⁴⁵	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

⁴⁵ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: thickeners								
		For the identification/characterisation of sodium carboxymethyl cellulose in the feed additive: – Commission Regulation (EU) No 231/2012 ⁴⁶ for sodium carboxymethyl cellulose and the corresponding methods of FAO JECFA 'sodium carboxymethyl cellulose' monograph and the 'volume 4' of FAO JECFA combined compendium for food additives specifications.						

⁴⁶

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: gelling agents								
1c466	Sodium carboxymethyl cellulose	Additive composition Sodium carboxymethyl cellulose ≥ 99,5 % (on the anhydrous basis) Solid form Characterisation of the active substance Sodium carboxymethyl cellulose, obtained by etherification reaction between the alkali-cellulose complex and monochloroacetic acid CAS No: 9000-32-4 Carboxymethyl groups (-CH ₂ COOH): 0.2- 1.5 per anydroglucose unit Loss on drying: ≤ 12 % Total glycolate: ≤ 0,4 % (as sodium glycolate on the anhydrous basis) Sodium: ≤ 12,4 % (on the anhydrous basis) Analytical method ⁴⁷	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

⁴⁷

Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: gelling agents								
		For the identification/characterisation of sodium carboxymethyl cellulose in the feed additive: – Commission Regulation (EU) No 231/2012 ⁴⁸ for sodium carboxymethyl cellulose and the corresponding methods of FAO JECFA 'sodium carboxymethyl cellulose' monograph and the 'volume 4' of FAO JECFA combined compendium for food additives specifications.						

⁴⁸

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council

Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: binders								
1c466	Sodium carboxymethyl cellulose	Additive composition Sodium carboxymethyl cellulose ≥ 99,5 % (on the anhydrous basis) Solid form Characterisation of the active substance Sodium carboxymethyl cellulose, obtained by etherification reaction between the alkali-cellulose complex and monochloroacetic acid CAS No: 9000-32-4 Carboxymethyl groups (-CH ₂ COOH): 0.2- 1.5 per anydroglucose unit Loss on drying: ≤ 12 % Total glycolate: ≤ 0,4 % (as sodium glycolate on the anhydrous basis) Sodium: ≤ 12,4 % (on the anhydrous basis) Analytical method ⁴⁹	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions and the stability to heat treatment shall be indicated. 2. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	[10 years from the date of entry into force of this Regulation. To be completed by the OP]

⁴⁹

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Identi- fication number of the feed additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg of additive/kg of complete feedingstuff with a moisture content of 12 %			
Category: technological additives. Functional group: binders								
		For the identification/characterisation of sodium carboxymethyl cellulose in the feed additive: – Commission Regulation (EU) No 231/2012 ⁵⁰ for sodium carboxymethyl cellulose and the corresponding methods of FAO JECFA 'sodium carboxymethyl cellulose' monograph and the 'volume 4' of FAO JECFA combined compendium for food additives specifications.						

⁵⁰

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council