

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/kg of complete feed with 12 % moisture content | | | |
| Category: technological additives. Functional group: silage additives | | | | | | | | |
| 1k280 | Propionic acid | Additive composition Propionic acid ≥ 99,5 % Characterisation of the active substance Propionic acid ≥ 99,5 % C ₃ H ₆ O ₂ CAS No: 79-09-4 Non-volatile residue ≤ 0,01 % when dried at 140 °C to constant weight Aldehydes ≤ 0,1 % expressed as Formaldehyde Produced by chemical synthesis Analytical method¹ For the determination of propionic acid in the feed additive: – Ion chromatography with conductivity detection (IC-CD) - EN 17294 | Pigs | - | - | 30 000 | 1. In the directions for use of the additive and premixtures, the storage conditions shall be indicated. 2. The simultaneous use with other sources of propionic acid shall not exceed the permitted maximum levels in complete feedingstuffs for related species. 3. Indicate in the instructions for use of the additive, premixture and related feedingstuffs for food-producing animals: ‘The simultaneous use of different organic acids or their salts is contraindicated, where one or more of them is used at or near the maximum permitted content.’ | [10 years from the date of entry into force of this Regulation. To be completed by the OP] |
| | | | Poultry | - | - | 10 000 | | |
| | | | All animal species other than pigs, poultry and aquatic animal species | - | - | - | | |

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

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|---|----------|--|---|----------------|---|--------------------|--|---|
| | | | | | mg/kg of complete feed with 12 % moisture content | | | |
| Category: technological additives. Functional group: silage additives | | | | | | | | |
| | | | | | | | <div>4. The additive shall only be used in easy to ensile fresh plant materials².</div> <div>5. 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> | |

² Easy to ensile forage: > 3 % soluble carbohydrates in fresh material (e.g. whole plant maize, ryegrass, brome grass or sugar beet pulp). Commission Regulation (EC) No 429/2008 (OJ L 133, 22.5.2008, p. 1, ELI: <http://data.europa.eu/eli/reg/2008/429/2021-03-27>).

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|---|-------------------|--|---|----------------|---|---------------------|--|---|
| | | | | | mg/kg of complete feed with 12 % moisture content | | | |
| Category: technological additives. Functional group: silage additives | | | | | | | | |
| 1k281 | Sodium propionate | Additive composition Sodium propionate ≥ 98,5 % Characterisation of the active substance Sodium propionate ≥ 98,5 % Chemical formula: C ₃ H ₅ O ₂ Na CAS No: 137-40-6 Loss on drying ≤ 4 % determined by drying for two hours at 105 °C Water insoluble ≤ 0,1 % Produced by chemical synthesis Analytical method³ For the determination of sodium propionate (as total propionic acid) in the feed additive: – Ion chromatography with conductivity detection (IC-CD) - EN 17294 For the determination of total sodium in the feed additives: – Atomic absorption spectrometry (AAS) - EN ISO 6869; or | Pigs | - | - | 30 000 ⁴ | 1. In the directions for use of the additive and premixtures, the storage conditions shall be indicated. 2. The simultaneous use with other sources of propionic acid shall not exceed the permitted maximum levels in complete feedingstuffs for related species. 3. Indicate in the instructions for use of the additive, premixture and related feedingstuffs for food-producing animals: ‘The simultaneous use of different organic acids or their salts is contraindicated where one or more of them is used at or near the maximum permitted content.’ | [10 years from the date of entry into force of this Regulation. To be completed by the OP] |
| | | | Poultry | - | - | 10 000 ⁴ | | |
| | | | All animal species other than pigs, poultry and aquatic animal species | - | - | - | | |

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

⁴ As propionic acid

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|---|----------|--|---|----------------|---|--------------------|--|---|
| | | | | | mg/kg of complete feed with 12 % moisture content | | | |
| Category: technological additives. Functional group: silage additives | | | | | | | | |
| | | – Inductively coupled plasma-atomic emission spectrometry (ICP-AES) - EN 15510 | | | | | 4. The additive shall only be used in easy to ensile fresh plant materials ⁵ . 5. 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. | |

⁵ Easy to ensile forage: > 3 % soluble carbohydrates in fresh material; moderately difficult to ensile forage: 1,5-3,0 % soluble carbohydrates in the fresh material in accordance with Commission Regulation (EC) No 429/2008 of 25 April 2008 on detailed rules for the implementation of Regulation (EC) No 1831/2003 of the European Parliament and of the Council as regards the preparation and the presentation of applications and the assessment and the authorisation of feed additives (OJ L 133, 22.5.2008, p. 1, ELI: <http://data.europa.eu/eli/reg/2008/429/2021-03-27>).

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| | | | | | mg/kg of complete feed with 12 % moisture content | | | |
| Category: technological additives. Functional group: silage additives | | | | | | | | |
| 1k284 | Ammonium propionate | Additive composition Preparation of ammonium propionate ≥ 19,0 %, propionic acid ≤ 80,0 % and water ≤ 30 % Characterisation of the active substance Ammonium propionate: C ₃ H ₉ O ₂ N CAS No.: 17496-08-1 Produced by chemical synthesis Analytical method⁶ For the determination of propionic acid and ammonium propionate (as total propionic acid) in the feed additive: – Ion chromatography with conductivity detection (IC-CD) - EN 17294 For the determination of total ammonium in the feed additive: – Distillation and titration - ISO 5664 | Pigs | - | - | 30 000 ⁷ | 1. In the directions for use of the additive and premixtures, the storage conditions shall be indicated. 2. The simultaneous use with other sources of propionic acid shall not exceed the permitted maximum levels in complete feedingstuffs for related species. 3. Indicate in the instructions for use of the additive, premixture and related feedingstuffs for food-producing animals: ‘The simultaneous use of different organic acids or their salts is contraindicated where one or more of them is used at or near the maximum permitted content.’ | [10 years from the date of entry into force of this Regulation. To be completed by the OP] |
| | | | Poultry | - | - | 10 000 ⁷ | | |
| | | | All animal species other than pigs, poultry and aquatic animal species | - | - | - | | |

⁶ 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

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| | | | | | mg/kg of complete feed with 12 % moisture content | | | |
| Category: technological additives. Functional group: silage additives | | | | | | | | |
| | | | | | | | <div>4. The additive shall only be used in easy to ensile fresh plant materials⁸.</div> <div>5. 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> | |

⁸ Easy to ensile forage: > 3 % soluble carbohydrates in fresh material (e.g. whole plant maize, ryegrass, brome grass or sugar beet pulp). Commission Regulation (EC) No 429/2008 (OJ L 133, 22.5.2008, p. 1, ELI: <http://data.europa.eu/eli/reg/2008/429/2021-03-27>).

