

# EN

## ANNEX

Identification number of the additive	Name of the holder of authorisation	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 active substance/kg of complete feedingstuff with a moisture content of 12%			
Category: Sensory additives. Functional group: Flavouring compounds									
2b13002	-	Methyl 2-furoate	<i>Additive composition</i> Methyl 2-furoate <i>Characterisation of the active substance</i> Methyl 2-furoate Produced by chemical synthesis Purity: min. 98% assay Chemical formula: C <sub>6</sub> H <sub>6</sub> O <sub>3</sub> CAS number: 611-13-2 FLAVIS No: 13.002 <i>Method of analysis</i> <sup>(1)</sup> For the determination of methyl 2-furoate in the feed additive and in feed flavouring premixtures: Gas chromatography mass spectrometry with retention time locking GC-MS-RTL	All animal species	-	-	-	<div>1. The additive shall be incorporated into the feed in the form of a premixture of flavourings.</div> <div>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</div> <div>3. The recommended maximum content of the active substance shall be 0.05 mg/kg of complete feedingstuff with a moisture content of 12%.</div> <div>4. On the label of the additive the following shall be indicated: "Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.05 mg/kg."</div> <div>5. The functional group, the identification number, the name and the added amount</div>	<i>[Publication Office insert date 10 years from the date of entry into force of the Regulation]</i>

								<p>of the active substance shall be indicated on the label of the premixtures and in the labelling of feed materials and compound feedingstuffs, if the following contents of the active substance in complete feedingstuff with a moisture content of 12% are exceeded: 0.05 mg/kg.</p> <p>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.</p>	
2b13016		Bis-(2-methyl-3-furyl) disulphide	<p><i>Additive composition</i></p> <p>Bis-(2-methyl-3-furyl) disulphide</p> <p><i>Characterisation of the active substance</i></p> <p>Bis-(2-methyl-3-furyl) disulphide</p> <p>Produced by chemical synthesis</p> <p>Purity: min. 98% assay</p> <p>Chemical formula: C<sub>10</sub>H<sub>10</sub>O<sub>2</sub> S<sub>2</sub></p> <p>CAS number: 28588-75-2</p> <p>FLAVIS No: 13.016</p> <p><i>Method of analysis <sup>(1)</sup></i></p> <p>For the determination of bis-(2-methyl-3-furyl) disulphide in the feed additive and in feed flavouring premixtures:</p> <p>Gas chromatography mass spectrometry with retention time locking GC-MS-RTL</p>	All animal species	-	-	-	<p>1. The additive shall be incorporated into the feed in the form of a premixture of flavourings.</p> <p>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</p> <p>3. The recommended maximum content of the active substance shall be 0.05 mg/kg of complete feedingstuff with a moisture content of 12%.</p> <p>4. On the label of the additive the following shall be indicated:</p> <p>"Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.05 mg/kg."</p> <p>5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and in the</p>	[Publication Office insert date 10 years from the date of entry into force of the Regulation]

								<p>labelling of feed materials and compound feedingstuffs, if the following contents of the active substance in complete feedingstuff with a moisture content of 12% are exceeded: 0.05 mg/kg.</p> <p>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.</p>	
2b13018		Furfural	<p><i>Additive composition</i></p> <p>Furfural</p> <p><i>Characterisation of the active substance</i></p> <p>Furfural</p> <p>Produced by chemical synthesis</p> <p>Purity: min. 95% assay</p> <p>Chemical formula: C<sub>5</sub>H<sub>4</sub>O<sub>2</sub></p> <p>CAS number: 98-01-1</p> <p>FLAVIS No: 13.018</p> <p><i>Method of analysis <sup>(1)</sup></i></p> <p>For the determination of furfural in the feed additive and in feed flavouring premixtures:</p> <p>Gas chromatography mass spectrometry with retention time locking GC-MS-RTL</p>	All animal species	-	-	-	<p>1. The additive shall be incorporated into the feed in the form of a premixture of flavourings.</p> <p>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</p> <p>3. The recommended maximum content of the active substance shall be 0.05 mg/kg of complete feedingstuff with a moisture content of 12%.</p> <p>4. On the label of the additive the following shall be indicated:</p> <p>"Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.05 mg/kg."</p> <p>5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and in the labelling of feed materials and compound feedingstuffs, if the following contents of</p>	<p><i>[Publication Office insert date 10 years from the date of entry into force of the Regulation]</i></p>

								<p>the active substance in complete feedingstuff with a moisture content of 12% are exceeded: 0.05 mg/kg.</p> <p>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.</p>	
2b13019		Furfuryl alcohol	<p><i>Additive composition</i></p> <p>Furfuryl alcohol</p> <p><i>Characterisation of the active substance</i></p> <p>Furfuryl alcohol</p> <p>Produced by chemical synthesis</p> <p>Purity: min. 97% assay</p> <p>Chemical formula: C<sub>5</sub>H<sub>6</sub>O<sub>2</sub></p> <p>CAS number: 98-00-0</p> <p>FLAVIS No: 13.019</p> <p><i>Method of analysis <sup>(1)</sup></i></p> <p>For the determination of furfuryl alcohol in the feed additive and in feed flavouring premixtures:</p> <p>Gas chromatography mass spectrometry with retention time locking GC-MS-RTL</p>	All animal species	-	-	-	<p>1. The additive shall be incorporated into the feed in the form of a premixture of flavourings.</p> <p>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</p> <p>3. The recommended maximum content of the active substance shall be 5 mg/kg of complete feedingstuff with a moisture content of 12%.</p> <p>4. On the label of the additive the following shall be indicated:</p> <p>"Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.05 mg/kg."</p> <p>5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and in the labelling of feed materials and compound feedingstuffs, if the following contents of the active substance in complete feedingstuff with a moisture content of</p>	[Publication Office insert date 10 years from the date of entry into force of the Regulation]

								<p>12% are exceeded: 0.05 mg/kg.</p> <p>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.</p>	
2b13026		Furanmethanethiol	<p>Additive composition</p> <p>Furanmethanethiol</p> <p>Characterisation of the active substance</p> <p>Furanmethanethiol</p> <p>Produced by chemical synthesis</p> <p>Purity: min. 97% assay</p> <p>Chemical formula: C<sub>5</sub>H<sub>6</sub>OS</p> <p>CAS number: 98-02-2</p> <p>FLAVIS No: 13.026</p> <p>Method of analysis <sup>(1)</sup></p> <p>For the determination of furanmethanethiol in the feed additive and in feed flavouring premixtures:</p> <p>Gas chromatography mass spectrometry with retention time locking GC-MS-RTL</p>	All animal species	-	-	-	<p>1. The additive shall be incorporated into the feed in the form of a premixture of flavourings.</p> <p>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</p> <p>3. The recommended maximum content of the active substance shall be 0.05 mg/kg of complete feedingstuff with a moisture content of 12%.</p> <p>4. On the label of the additive the following shall be indicated:</p> <p>"Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.05 mg/kg."</p> <p>5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and in the labelling of feed materials and compound feedingstuffs, if the following contents of the active substance in complete feedingstuff with a moisture content of 12% are exceeded: 0.05 mg/kg.</p> <p>6. For users of the additive and premixtures,</p>	<p><i>[Publication Office insert date 10 years from the date of entry into force of the Regulation]</i></p>

								feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.	
2b13033		S-furfuryl acetothioate	<p><i>Additive composition</i></p> <p>S-furfuryl acetothioate</p> <p><i>Characterisation of the active substance</i></p> <p>S-furfuryl acetothioate</p> <p>Produced by chemical synthesis</p> <p>Purity: min. 95% assay</p> <p>Chemical formula: C<sub>7</sub>H<sub>8</sub>O<sub>2</sub>S</p> <p>CAS number: 13678-68-7</p> <p>FLAVIS No: 13.033</p> <p><i>Method of analysis</i> <sup>(1)</sup></p> <p>For the determination of S-furfuryl acetothioate in the feed additive and in feed flavouring premixtures:</p> <p>Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.</p>	All animal species	-	-	-	<ol style="list-style-type: none"> <li>1. The additive shall be incorporated into the feed in the form of a premixture of flavourings.</li> <li>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</li> <li>3. The recommended maximum content of the active substance shall be 0.05 mg/kg of complete feedingstuff with a moisture content of 12%.</li> <li>4. On the label of the additive the following shall be indicated: "Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.05 mg/kg."</li> <li>5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and in the labelling of feed materials and compound feedingstuffs, if the following contents of the active substance in complete feedingstuff with a moisture content of 12% are exceeded: 0.05 mg/kg.</li> <li>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational</li> </ol>	[Publication Office insert date 10 years from the date of entry into force of the Regulation]

								measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.	
2b13050		Difurfuryl disulphide	<p><i>Additive composition</i></p> <p>Difurfuryl disulphide</p> <p><i>Characterisation of the active substance</i></p> <p>Difurfuryl disulphide</p> <p>Produced by chemical synthesis</p> <p>Purity: min. 96% assay</p> <p>Chemical formula: C<sub>10</sub>H<sub>10</sub>O<sub>2</sub>S<sub>2</sub></p> <p>CAS number: 4437-20-1</p> <p>FLAVIS No: 13.050</p> <p><i>Method of analysis</i> <sup>(1)</sup></p> <p>For the determination of difurfuryl disulphide in the feed additive and in feed flavouring premixtures:</p> <p>Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.</p>	All animal species	-	-	-	<ol style="list-style-type: none"> <li>1. The additive shall be incorporated into the feed in the form of a premixture of flavourings.</li> <li>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</li> <li>3. The recommended maximum content of the active substance shall be 0.05 mg/kg of complete feedingstuff with a moisture content of 12%.</li> <li>4. On the label of the additive the following shall be indicated: "Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.05 mg/kg."</li> <li>5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and in the labelling of feed materials and compound feedingstuffs, if the following contents of the active substance in complete feedingstuff with a moisture content of 12% are exceeded: 0.05 mg/kg.</li> <li>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact.</li> </ol>	

								Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.	
2b13053		Methyl furfuryl sulphide	<p><i>Additive composition</i> Methyl furfuryl sulphide <i>Characterisation of the active substance</i> Methyl furfuryl sulphide Produced by chemical synthesis Purity: min. 97% assay Chemical formula: C<sub>6</sub>H<sub>8</sub>OS CAS number: 1438-91-1 FLAVIS No: 13.053 <i>Method of analysis</i> <sup>(1)</sup> For the determination of methyl furfuryl sulphide in the feed additive and in feed flavouring premixtures: Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.</p>	All animal species	-	-	-	<ol style="list-style-type: none"> <li>1. The additive shall be incorporated into the feed in the form of a premixture of flavourings.</li> <li>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</li> <li>3. The recommended maximum content of the active substance shall be 0.05 mg/kg of complete feedingstuff with a moisture content of 12%.</li> <li>4. On the label of the additive the following shall be indicated: "Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.05 mg/kg."</li> <li>5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and in the labelling of feed materials and compound feedingstuffs, if the following contents of the active substance in complete feedingstuff with a moisture content of 12% are exceeded: 0.05 mg/kg.</li> <li>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures</li> </ol>	



								and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.	
2b13055		2-Methylfuran-3-thiol	<p><i>Additive composition</i></p> <p>2-Methylfuran-3-thiol</p> <p><i>Characterisation of the active substance</i></p> <p>2-Methylfuran-3-thiol</p> <p>Produced by chemical synthesis</p> <p>Purity: min. 95% assay</p> <p>Chemical formula: C<sub>5</sub>H<sub>6</sub>OS</p> <p>CAS number: 28588-74-1</p> <p>FLAVIS No: 13.055</p> <p><i>Method of analysis</i> <sup>(1)</sup></p> <p>For the determination of 2-methylfuran-3-thiol in the feed additive and in feed flavouring premixtures:</p> <p>Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.</p>	All animal species	-	-	-	<ol style="list-style-type: none"> <li>1. The additive shall be incorporated into the feed in the form of a premixture of flavourings.</li> <li>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</li> <li>3. The recommended maximum content of the active substance shall be 0.05 mg/kg of complete feedingstuff with a moisture content of 12%.</li> <li>4. On the label of the additive the following shall be indicated: "Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.05 mg/kg."</li> <li>5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and in the labelling of feed materials and compound feedingstuffs, if the following contents of the active substance in complete feedingstuff with a moisture content of 12% are exceeded: 0.05 mg/kg.</li> <li>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal</li> </ol>	

								protective equipment, including breathing protection, safety glasses and gloves.	
2b13064		Methyl furfuryl disulphide	<p><i>Additive composition</i></p> <p>Methyl furfuryl disulphide</p> <p><i>Characterisation of the active substance</i></p> <p>Methyl furfuryl disulphide</p> <p>Produced by chemical synthesis</p> <p>Purity: min. 95% assay</p> <p>Chemical formula: C<sub>6</sub>H<sub>8</sub>OS<sub>2</sub></p> <p>CAS number: 57500-00-2</p> <p>FLAVIS No: 13.064</p> <p><i>Method of analysis</i> <sup>(1)</sup></p> <p>For the determination of methyl furfuryl disulphide in the feed additive and in feed flavouring premixtures:</p> <p>Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.</p>	All animal species	-	-	-	<ol style="list-style-type: none"> <li>1. The additive shall be incorporated into the feed in the form of a premixture of flavourings.</li> <li>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</li> <li>3. The recommended maximum content of the active substance shall be 0.05 mg/kg of complete feedingstuff with a moisture content of 12%.</li> <li>4. On the label of the additive the following shall be indicated: "Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.05 mg/kg."</li> <li>5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and in the labelling of feed materials and compound feedingstuffs, if the following contents of the active substance in complete feedingstuff with a moisture content of 12% are exceeded: 0.05 mg/kg.</li> <li>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.</li> </ol>	

2b13079		Methyl 2-methyl-3-furyl disulphide	<p><i>Additive composition</i></p> <p>Methyl 2-methyl-3-furyl disulphide</p> <p><i>Characterisation of the active substance</i></p> <p>Methyl 2-methyl-3-furyl disulphide</p> <p>Produced by chemical synthesis</p> <p>Purity: min. 97% assay</p> <p>Chemical formula: C<sub>6</sub>H<sub>8</sub>OS<sub>2</sub></p> <p>CAS number: 65505-17-1</p> <p>FLAVIS No: 13.079</p> <p><i>Method of analysis</i> <sup>(1)</sup></p> <p>For the determination of methyl 2-methyl-3-furyl disulphide in the feed additive and in feed flavouring premixtures:</p> <p>Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.</p>	All animal species	-	-	-	<ol style="list-style-type: none"> <li>1. The additive shall be incorporated into the feed in the form of a premixture of flavourings.</li> <li>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</li> <li>3. The recommended maximum content of the active substance shall be 0.05 mg/kg of complete feedingstuff with a moisture content of 12%.</li> <li>4. On the label of the additive the following shall be indicated: "Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.05 mg/kg."</li> <li>5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and in the labelling of feed materials and compound feedingstuffs, if the following contents of the active substance in complete feedingstuff with a moisture content of 12% are exceeded: 0.05 mg/kg.</li> <li>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.</li> </ol>	
2b13128		Furfuryl acetate	<p><i>Additive composition</i></p> <p>Furfuryl acetate</p>	All animal species	-	-	-	<ol style="list-style-type: none"> <li>1. The additive shall be incorporated into the feed in the form of a premixture of</li> </ol>	

			<p><i>Characterisation of the active substance</i></p> <p>Furfuryl acetate</p> <p>Produced by chemical synthesis</p> <p>Purity: min. 97% assay</p> <p>Chemical formula: C<sub>7</sub>H<sub>8</sub>O<sub>3</sub></p> <p>CAS number: 623-17-6</p> <p>FLAVIS No: 13.128</p> <p><i>Method of analysis</i> <sup>(1)</sup></p> <p>For the determination of furfuryl acetate in the feed additive and in feed flavouring premixtures:</p> <p>Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.</p>					<p>flavourings.</p> <p>2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.</p> <p>3. The recommended maximum content of the active substance shall be 0.5 mg/kg of complete feedingstuff with a moisture content of 12%.</p> <p>4. On the label of the additive the following shall be indicated:</p> <p>"Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12%: 0.5 mg/kg."</p> <p>5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and in the labelling of feed materials and compound feedingstuffs, if the following contents of the active substance in complete feedingstuff with a moisture content of 12% are exceeded: 0.5 mg/kg.</p> <p>6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.</p>	
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<sup>(1)</sup> = Details of the analytical methods are available at the following address of the Reference Laboratory: <https://ec.europa.eu/jrc/en/eurl/feed-additives/evaluation-reports>