

# DIN EN 15040:2014-06 (E)

## Chemicals used for treatment of water intended for human consumption - Antiscalants for membranes - Phosphonic acids and salts

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
Introduction .....		4
<b>1</b>	<b>Scope .....</b>	<b>5</b>
<b>2</b>	<b>Normative references .....</b>	<b>5</b>
<b>3</b>	<b>Description .....</b>	<b>6</b>
<b>3.1</b>	<b>Identification .....</b>	<b>6</b>
<b>3.2</b>	<b>Commercial forms .....</b>	<b>8</b>
<b>3.3</b>	<b>Physical properties .....</b>	<b>8</b>
<b>3.4</b>	<b>Chemical properties .....</b>	<b>9</b>
<b>4</b>	<b>Purity criteria .....</b>	<b>9</b>
<b>4.1</b>	<b>General .....</b>	<b>9</b>
<b>4.2</b>	<b>Composition of commercial product .....</b>	<b>10</b>
<b>4.3</b>	<b>Impurities and main by-products .....</b>	<b>10</b>
<b>4.4</b>	<b>Chemical parameters .....</b>	<b>10</b>
<b>5</b>	<b>Test methods .....</b>	<b>10</b>
<b>5.1</b>	<b>Sampling .....</b>	<b>10</b>
<b>5.2</b>	<b>Analyses .....</b>	<b>12</b>
<b>6</b>	<b>Labelling - Transportation - Storage .....</b>	<b>15</b>
<b>6.1</b>	<b>Means of delivery .....</b>	<b>15</b>
<b>6.2</b>	<b>Risk and safety labelling according to the EU legislation .....</b>	<b>16</b>
<b>6.3</b>	<b>Transportation regulations and labelling .....</b>	<b>16</b>
<b>6.4</b>	<b>Marking .....</b>	<b>16</b>
<b>6.5</b>	<b>Storage .....</b>	<b>17</b>
	<b>Annex A (informative) General information on phosphonic acids and salts .....</b>	<b>18</b>
	<b>Annex B (normative) General rules relating to safety .....</b>	<b>20</b>
	<b>Annex C (informative) Environmental, health and safety precautions within chemical laboratory .....</b>	<b>21</b>
	<b>Bibliography .....</b>	<b>22</b>