

# DIN EN ISO 19340:2019-01 (E)

## Water quality - Determination of dissolved perchlorate - Method using ion chromatography (IC) (ISO 19340:2017)

---

<b>Contents</b>	<b>Page</b>
European foreword .....	3
Foreword .....	4
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>5</b>
<b>4 Interferences</b> .....	<b>5</b>
<b>5 Principle</b> .....	<b>6</b>
<b>6 Reagents</b> .....	<b>6</b>
<b>7 Apparatus</b> .....	<b>8</b>
<b>8 Quality requirements</b> .....	<b>9</b>
8.1 Performance of the separator column .....	9
8.2 Materials .....	10
<b>9 Sampling and sample pre-treatment</b> .....	<b>10</b>
<b>10 Procedure</b> .....	<b>11</b>
10.1 General .....	11
10.2 Calibration .....	11
10.3 Measurement of perchlorate .....	11
10.4 Validity check of the calibration function .....	12
<b>11 Calculation</b> .....	<b>12</b>
<b>12 Expression of results</b> .....	<b>12</b>
<b>13 Test report</b> .....	<b>12</b>
<b>Annex A (normative) Elimination of dissolved sulfate, chloride, hydrogen carbonate, carbonate and metals</b> .....	<b>13</b>
<b>Annex B (normative) Determination of perchlorate using inline matrix elimination and applying re-injection analysis</b> .....	<b>18</b>
<b>Annex C (normative) Determination of perchlorate using inline matrix elimination and concentration applying two-dimensional ion chromatography (2DIC)</b> .....	<b>22</b>
<b>Annex D (informative) Performance data</b> .....	<b>26</b>
<b>Bibliography</b> .....	<b>29</b>