

# DIN EN ISO 14389:2023-01 (E)

## Textiles - Determination of the phthalate content - Tetrahydrofuran method (ISO 14389:2022)

---

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>3</b>
<b>Foreword</b> .....	<b>4</b>
<b>Introduction</b> .....	<b>5</b>
<b>1 Scope</b> .....	<b>6</b>
<b>2 Normative references</b> .....	<b>6</b>
<b>3 Terms and definitions</b> .....	<b>6</b>
<b>4 Principle</b> .....	<b>6</b>
<b>5 Reagents</b> .....	<b>7</b>
<b>6 Apparatus</b> .....	<b>7</b>
<b>7 Procedure</b> .....	<b>8</b>
7.1 Cross-contamination provisions .....	8
7.2 Preparation of standard solutions .....	8
7.2.1 Internal standard solution .....	8
7.2.2 Preparation of stock standard solutions .....	8
7.2.3 Preparation of the calibration solutions .....	8
7.3 Ultrasonic extraction and determination of phthalates .....	9
7.3.1 General .....	9
7.3.2 Preparation of test specimen .....	9
7.3.3 Extraction procedure .....	9
7.3.4 Phthalates determination .....	10
<b>8 Calculation of the results</b> .....	<b>10</b>
8.1 Calculation based on the corrected mass (by default) .....	10
8.2 Calculation based on the total mass (when relevant) .....	11
<b>9 Test report</b> .....	<b>11</b>
<b>Annex A (normative) Calculations</b> .....	<b>12</b>
<b>Annex B (informative) Example of test parameters by GC-MS</b> .....	<b>15</b>
<b>Annex C (informative) Determination of PVC mass fraction by chemical method</b> .....	<b>17</b>
<b>Annex D (informative) Statistical data</b> .....	<b>20</b>
<b>Bibliography</b> .....	<b>26</b>