

# DIN EN 12916:2024-05 (E)

## Petroleum products - Determination of aromatic hydrocarbon types in middle distillates - High performance liquid chromatography method with refractive index detection

---

<b>Contents</b>		<b>Page</b>
European foreword.....		3
<b>1</b> Scope.....		<b>4</b>
<b>2</b> Normative references.....		<b>4</b>
<b>3</b> Terms and definitions .....		<b>5</b>
<b>4</b> Principle .....		<b>6</b>
<b>5</b> Reagents and materials.....		<b>6</b>
<b>6</b> Apparatus.....		<b>7</b>
<b>7</b> Sampling.....		<b>8</b>
<b>8</b> Apparatus preparation .....		<b>9</b>
<b>9</b> Calibration .....		<b>11</b>
<b>10</b> Procedure.....		<b>13</b>
<b>10.1</b> Procedure A for diesel fuels and petroleum distillates.....		<b>13</b>
<b>10.2</b> Procedure B for paraffinic diesel fuels.....		<b>13</b>
<b>10.3</b> Procedure A and B continuation.....		<b>13</b>
<b>11</b> Calculation.....		<b>15</b>
<b>11.1</b> Retention times.....		<b>15</b>
<b>11.2</b> Column resolution .....		<b>16</b>
<b>11.3</b> Cut times.....		<b>16</b>
<b>11.4</b> Aromatic hydrocarbons type content.....		<b>16</b>
<b>11.5</b> Polycyclic and total aromatic hydrocarbons content .....		<b>17</b>
<b>12</b> Expression of results.....		<b>17</b>
<b>13</b> Precision.....		<b>17</b>
<b>13.1</b> General.....		<b>17</b>
<b>13.2</b> Repeatability, <i>r</i> .....		<b>17</b>
<b>13.3</b> Reproducibility, <i>R</i> .....		<b>17</b>
<b>14</b> Test report.....		<b>18</b>
<b>Annex A</b> (informative) <b>Column selection and use</b> .....		<b>19</b>
<b>Annex B</b> (informative) <b>Practical instructions for paraffinic diesel fuel samples</b> .....		<b>20</b>
<b>Annex C</b> (informative) <b>Identification of tri+-aromatics</b> .....		<b>22</b>
<b>Bibliography</b> .....		<b>23</b>