

DIN EN 12916:2022-10 (E)

Petroleum products - Determination of aromatic hydrocarbon types in middle distillates - High performance liquid chromatography method with refractive index detection (includes Amendment :2022)

| Contents | | Page |
|---|--|-------------|
| European foreword | | 3 |
| 1 | Scope | 4 |
| 2 | Normative references | 4 |
| 3 | Terms and definitions | 5 |
| 4 | Principle | 6 |
| 5 | Reagents and materials | 6 |
| 6 | Apparatus | 7 |
| 7 | Sampling | 8 |
| 8 | Apparatus preparation | 9 |
| 9 | Calibration | 12 |
| 10 | Procedure | 13 |
| 10.1 | Procedure A for diesel fuels and petroleum distillates | 13 |
| 10.2 | Procedure B for paraffinic diesel fuels | 13 |
| 10.3 | Procedure A and B continuation | 13 |
| 11 | Calculation | 16 |
| 11.1 | Retention times | 16 |
| 11.2 | Column resolution | 16 |
| 11.3 | Cut times | 16 |
| 11.4 | Aromatic hydrocarbons type content | 17 |
| 11.5 | Polycyclic and total aromatic hydrocarbons content | 17 |
| 12 | Expression of results | 17 |
| 13 | Precision | 17 |
| 13.1 | General | 17 |
| 13.2 | Repeatability, r | 18 |
| 13.3 | Reproducibility, R | 18 |
| 14 | Test report | 18 |
| Annex A (informative) Column selection and use | | 19 |
| Annex B (informative) Practical instructions for paraffinic diesel fuel samples | | 20 |
| Bibliography | | 21 |