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## STANDARD SPECIFICATION OF BENZENE OCTANE 83

| PROPERTY                                                                        | REQUIREMENT                                        | REQUIREMENT                                        | TEST METHOD                                      |
|---------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|--------------------------------------------------|
|                                                                                 | MIN                                                | MAX                                                |                                                  |
| Research Octane Number, RON                                                     | 91 (Until 31.12.2014)                              | ----                                               | ISO 5164                                         |
|                                                                                 |                                                    | ----                                               | ASTMD2699                                        |
| Motor Octane Number, MON                                                        | 81 (Until 31.12.2014)                              | ----                                               | ISO 5163                                         |
|                                                                                 |                                                    | ----                                               | ASTMD2700                                        |
| Lead Content, mg/L                                                              | ----                                               | 1.3                                                | EN 237<br>ASTM D3237/IP 428                      |
| Benzene Content, % v/v                                                          | ----                                               | 3.0                                                | EN 238/IP429<br>ASTM D4420                       |
| Total aromatics, % v/v                                                          | To Be Reported                                     | To Be Reported                                     | ASTM D1319,<br>ASTM D5580 or ASTM D5443          |
| Density (at 20 °C), kg/m <sup>3</sup>                                           | 716                                                | 771                                                | ISO 3675, ASTM D4052<br>ASTM D1298               |
| Density (at 15 °C), kg/m <sup>3</sup>                                           | 720                                                | 780                                                |                                                  |
| Sulphur Content, % m/m                                                          | ----                                               | 0.015                                              | EN 24260, ISO 8754, ASTM<br>D2622/IP336          |
| Oxidation stability, minutes                                                    | 360                                                | ----                                               | ISO 7536/IP40<br>ASTM D525                       |
| Appearance                                                                      | Clear, bright and free from<br>suspended particles | Clear, bright and free from<br>suspended particles | Visual Inspection                                |
| Doctor Test*                                                                    | To Be Reported                                     |                                                    | ASTM D4952/IP30                                  |
| Mercaptan Sulphur, % m/m                                                        |                                                    | 0.001                                              | ASTM D3227                                       |
| Color                                                                           |                                                    |                                                    | Visual Inspection                                |
| Dye Content, g/m <sup>3</sup>                                                   |                                                    | 1.3                                                | ----                                             |
| Odor                                                                            | Marketable                                         | Marketable                                         | ----                                             |
| Oxygenates                                                                      |                                                    |                                                    | EN 1601/EN 13132                                 |
| RVP at 37.8 °C, KPa                                                             |                                                    | 65                                                 | ASTM D323                                        |
| FVI                                                                             |                                                    | 93                                                 | ASTM D323<br>ASTM D86<br>OR<br>IP123<br>ASTM D86 |
| Distillation                                                                    |                                                    |                                                    |                                                  |
| a) Temperature, °C for:                                                         |                                                    |                                                    |                                                  |
| Initial Boiling Point                                                           | To Be Reported                                     |                                                    |                                                  |
| 10% volume fraction evaporated                                                  |                                                    | 71                                                 |                                                  |
| 50% volume fraction evaporated                                                  | 77                                                 | 115                                                |                                                  |
| 90% volume fraction evaporated                                                  |                                                    | 180                                                |                                                  |
| b) Final boiling point, °C                                                      |                                                    | 210                                                |                                                  |
| c) Residue, % Volume fraction,                                                  |                                                    | 2.0                                                |                                                  |
| d) Evaporated to 70 °C (E70), %<br>volume fraction                              | Report                                             | Report                                             |                                                  |
| * If Negative, no need to carry out Mercaptan Sulphur test.                     |                                                    |                                                    |                                                  |
| NOTE: For the purpose of this standard, the RON and MON shall be 91 and 81, Min |                                                    |                                                    |                                                  |

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