







2023

Mercedes-Benz E-Class

300d 4MATIC diesel AWD automatic



9.3

Clean Air Index 4.0

Energy Efficiency Index 1.9

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Greenhouse Gas Index

9.3 Clean Air Tests

| | Laboratory Test | NMHC | NO _x | NH ₃ | со | PN |
|----------------|--------------------|-------------|------------------|-----------------|-------------|----|
| 9.3 /10 | Cold Test | | | | | |
| 9.6/10 | Warm Test | | | | | |
| 8.8 /10 | Highway | | | | | |
| | Cold Ambient Test | Does not qu | alify for addit | ional robustne | ess testing | |
| | Road Test | | | | | |
| 9.8/10 | On-Road Drive | | | | | |
| 4.5 /5 | On-Road Short Trip | | | | | |
| | On-Road Heavy Load | Does not qu | alify for addit | ional robustne | ess testing | |
| | On-Road Light Load | Does not qu | alify for addit | ional robustne | ess testing | |
| | Congestion | Does not qu | ualify for addit | ional robustne | ess testing | |
| | | | | | | |













Comments

adequate marginal

Pollutant control in the diesel E-Class is exceptional and demonstrates some results never seen before. The vehicle collects almost all points in every test and keeps emissions at a minimum level even in the Highway Test, where many competitors struggle. NO_x emissions – typically a challenge for diesel powertrains – are practically non-existent, and only in the Short Trip are there some after a cold engine start. Another astonishing achievement lies in the particle control, as the test results come close to, or are even below, Green NCAP's very stringent lower thresholds.



Energy Efficiency Tests

| | Laboratory Test | Energy | |
|----------------|-------------------|------------------------|------------------------------|
| 4.5 /10 | Cold Test | | |
| 5.2 /10 | Warm Test | | |
| 2.4 /10 | Highway | | |
| | Cold Ambient Test | Does not qualify for a | dditional robustness testing |
| | | Consumption | Driving Range |
| | Average | 6.3 I/100 km | 1,064 km |
| | Worst-case | 7.5 I/100 km | 884 km |
| | | | |













Comments

The E300d requires less than six litres of diesel fuel for 100 km in the standard Cold and Warm Lab Tests, as well as in the On-road Drive. These figures are even below the officially declared WLTP value of 6.5 I/100 km. The Short Urban Trip is measured to consume slightly more than 7 I/100 km, whereas performing the dynamic Highway cycle needs 7.5 I/100 km. The values are creditable for a vehicle of this type, power and mass.

| Greenhouse gases | CO2 | N ₂ O | CH₄ | |
|--------------------------|----------|------------------|-----------------------------|--|
| 2.5 /10 Cold Test | | | | |
| 3.4 /10 Warm Test | | | | |
| 0.0 /10 Highway | | | | |
| Cold Ambient Test | Does not | qualify for ad | ditional robustness testing | |













adequate marginal

Comments

This is the most challenging category for the E300d. Good methane (CH₄) emissions control earns the car the maximum bonus points, but – typically for diesel powertrains – the car emits N₂O above Green NCAP's threshold and the E300d loses 1.5 test points. CO₂ is around 145-155 g/km at the tailpipe in both WLTC+ Lab Tests and rises to 194 g/km during the more challenging Highway Test. The addition of the emissions related to diesel production and supply (ca. 30 g CO₂-eq./km) reduces further the Mercedes's score in this part of the assessment.

Our Verdict

The Mercedes-Benz E300d tested here is a station wagon with a two-litre diesel engine, providing 210 kW peak power and 550 Nm of torque. The empty weight of the luxurious vehicle is 2,077 kg. The car takes every advantage of the efficiency of its diesel powertrain, which is supported by a 48 V mild-hybrid system. Consumption values below 6 I/100 km are realistic. Nevertheless, the consumption figures are not low enough to help the Mercedes get more than 1.9 points in the Greenhouse Gas Index. The truly astonishing achievement of Mercedes' engineers is visible in the Clean Air Index: with 9.3 points out of 10, the diesel E-Class becomes the cleanest combustion-engined vehicle Green NCAP has tested so far. The E-Class maintains control over the pollutants in all tests, while minimising both NO_x and particle number to extreme levels.

Overall, the E300d earns an Average Score of 50% and 3 Green Stars.

Disclaimer 🗷

Specification

Tested Car

Tvres

Power/Torque

| Publication Date | | |
|-------------------------|--|--|
| 09 2023 | | |
| | | |

Mass Engine Size 2,077 kg 1,993 cc

Declared Battery Capacity Declared Driving Range

Vehicle Class

Declared Consumption 6.5 |/100 km

Emissions Class

Euro 6d AP

Declared CO₂ 170 g/km

Heating Concept

