

Commission Regulation (EU) 2017/2400 of 12 December 2017 implementing Regulation (EC) No 595/2009 of the European Parliament and of the Council as regards the determination of the CO₂ emissions and fuel consumption of heavy-duty vehicles and amending Directive 2007/46/EC of the European Parliament and of the Council and Commission Regulation (EU) No 582/2011 (Text with EEA relevance)

CHAPTER 1

GENERAL PROVISIONS

Article 5

Electronic tools

1 The Commission shall provide free of charge the following electronic tools in the form of downloadable and executable software:

- a a simulation tool;
- b pre-processing tools;
- c a hashing tool.

The Commission shall maintain the electronic tools and provide modifications and updates to those tools.

2 The Commission shall make the electronic tools referred to in paragraph 1 available through a publicly available dedicated electronic distribution platform.

[^{F13} The simulation tool shall be used for the purposes of determining CO₂ emissions and fuel consumption of new vehicles, or for the purposes of determining whether those vehicles are a ZE-HDVs, He-HDVs or dual-fuel vehicle. The simulation tool shall be designed to operate on the basis of input information as specified in Annex III, as well as input data referred to in Article 12(1).]

4 The pre-processing tools shall be used for the purpose of verification and compilation of the testing results and performing additional calculations relating to CO₂ emission and fuel consumption related properties of certain components, separate technical units or systems and converting them in a format used by the simulation tool. The pre-processing tools shall be used by the manufacturer after performing the tests referred to in point 4 of Annex V for engines and in point 3 of Annex VIII for air-drag.

[^{F15} The hashing tools shall be used for establishing an unequivocal association between the certified CO₂ emission and fuel consumption related properties of a component, separate technical unit or system and its certification document, as well as for establishing an unequivocal association between a vehicle and its manufacturer's records file and customer information file as referred to in Annex IV.]

Textual Amendments

- F1** Substituted by [Commission Regulation \(EU\) 2019/318 of 19 February 2019 amending Regulation \(EU\) 2017/2400 and Directive 2007/46/EC of the European Parliament and of the Council as regards](#)

Changes to legislation: There are outstanding changes not yet made to Commission Regulation (EU) 2017/2400. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

the determination of the CO2 emissions and fuel consumption of heavy-duty vehicles (Text with EEA relevance).

Changes to legislation:

There are outstanding changes not yet made to Commission Regulation (EU) 2017/2400. Any changes that have already been made to the legislation appear in the content and are referenced with annotations.

[View outstanding changes](#)

Changes and effects yet to be applied to :

- Art. 5(1) words omitted by [S.I. 2022/1273 reg. 82\(5\)\(a\)\(ii\)](#)
- Art. 5(1) words substituted by [S.I. 2022/1273 reg. 82\(5\)\(a\)\(i\)](#)
- Art. 5(2) omitted by [S.I. 2022/1273 reg. 82\(5\)\(b\)](#)

Changes and effects yet to be applied to the whole legislation item and associated provisions

- Signature words omitted by [S.I. 2022/1273 reg. 82\(18\)](#)
- Annex 5 Appendix 6 point 1.3 substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(i\)](#)
- Annex 5 Appendix 6 point 1.4.1 image substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(iii\)\(aa\)](#)
- Annex 5 Appendix 6 point 1.5.1 image substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(iv\)\(aa\)](#)
- Annex 5 Appendix 4 point 7.4 word substituted by [S.I. 2022/1273 reg. 83\(4\)\(a\)](#)
- Annex 5 Appendix 6 point 2.1 word substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(v\)](#)
- Annex 5 Appendix 6 point 1.4.1 words omitted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(iii\)\(bb\)](#)
- Annex 5 Appendix 6 point 1.5.1 words omitted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(iv\)\(bb\)](#)
- Annex 5 Appendix 6 point 1.4 words substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(ii\)](#)
- Annex 5 Appendix 6 point 2.1 table words substituted by [S.I. 2022/1273 reg. 83\(4\)\(b\)\(vi\)](#)
- Annex 10 Appendix 4 point 1.1 word substituted by [S.I. 2022/1273 reg. 83\(8\)\(d\)\(i\)](#)
- Annex 10 Appendix 1 words substituted by [S.I. 2022/1273 reg. 83\(8\)\(c\)](#)
- Annex 10 Appendix 4 point 1.1 table words substituted by [S.I. 2022/1273 reg. 83\(8\)\(d\)\(ii\)](#)
- Annex 7 Appendix 5 point 1.3 substituted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(i\)](#)
- Annex 7 Appendix 5 point 1.4.1 image substituted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(iii\)\(aa\)](#)
- Annex 7 Appendix 1s. 1 point 000.5 word substituted by [S.I. 2022/1273 reg. 83\(6\)\(b\)\(ii\)](#)
- Annex 7 Appendix 1 words inserted by [S.I. 2022/1273 reg. 83\(6\)\(b\)\(i\)\(aa\)](#)
- Annex 7 Appendix 1 words omitted by [S.I. 2022/1273 reg. 83\(6\)\(b\)\(i\)\(bb\)](#)
- Annex 7 Appendix 5 point 1.4.1 words omitted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(iii\)\(bb\)](#)
- Annex 7 Appendix 5 point 1.4 words substituted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(ii\)](#)
- Annex 7 Appendix 5 point 2.1 words substituted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(iv\)](#)
- Annex 7 Appendix 5 point 2.1 table words substituted by [S.I. 2022/1273 reg. 83\(6\)\(c\)\(v\)](#)
- Annex 8 Appendix 8 point 1.3 substituted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(i\)](#)
- Annex 8 Appendix 8 point 1.4.1 image substituted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(iii\)\(aa\)](#)
- Annex 8 Appendix 4 table 11 word omitted by [S.I. 2022/1273 reg. 83\(7\)\(c\)\(i\)](#)
- Annex 8 Appendix 4 table 13 word omitted by [S.I. 2022/1273 reg. 83\(7\)\(c\)\(i\)](#)
- Annex 8 Appendix 4 table 15 word omitted by [S.I. 2022/1273 reg. 83\(7\)\(c\)\(ii\)\(aa\)](#)
- Annex 8 Appendix 4 table 15 word omitted by [S.I. 2022/1273 reg. 83\(7\)\(c\)\(ii\)\(bb\)](#)
- Annex 8 Appendix 1s. 1 point 000.6 word substituted by [S.I. 2022/1273 reg. 83\(7\)\(b\)\(ii\)](#)
- Annex 8 Appendix 8 point 2.1 word substituted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(iv\)](#)

- Annex 8 Appendix 1 words inserted by [S.I. 2022/1273 reg. 83\(7\)\(b\)\(i\)\(aa\)](#)
- Annex 8 Appendix 1 words omitted by [S.I. 2022/1273 reg. 83\(7\)\(b\)\(i\)\(bb\)](#)
- Annex 8 Appendix 8 point 1.4.1 words omitted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(iii\)\(bb\)](#)
- Annex 8 Appendix 8 point 1.4 words substituted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(ii\)](#)
- Annex 8 Appendix 8 point 2.1 table words substituted by [S.I. 2022/1273 reg. 83\(7\)\(d\)\(v\)](#)
- Annex 2 Appendix 2s. 2 point 2 omitted by [S.I. 2022/1273 reg. 83\(2\)\(b\)\(ii\)](#)
- Annex 2 Appendix 2 words inserted by [S.I. 2022/1273 reg. 83\(2\)\(b\)\(i\)](#)
- Annex 6 Appendix 7 point 1.3 substituted by [S.I. 2022/1273 reg. 83\(5\)\(e\)\(i\)](#)
- Annex 6 Appendix 7 point 1.5 image substituted by [S.I. 2022/1273 reg. 83\(5\)\(e\)\(iii\)\(aa\)](#)
- Annex 6 Appendix 7 point 2.1 word substituted by [S.I. 2022/1273 reg. 83\(5\)\(e\)\(iv\)](#)
- Annex 6 Appendix 1 words omitted by [S.I. 2022/1273 reg. 83\(5\)\(c\)](#)
- Annex 6 Appendix 7 point 1.5 words omitted by [S.I. 2022/1273 reg. 83\(5\)\(e\)\(iii\)\(bb\)](#)
- Annex 6 Appendix 2 point 8 words substituted by [S.I. 2022/1273 reg. 83\(5\)\(d\)](#)
- Annex 6 Appendix 3 point 8 words substituted by [S.I. 2022/1273 reg. 83\(5\)\(d\)](#)
- Annex 6 Appendix 4 point 8 words substituted by [S.I. 2022/1273 reg. 83\(5\)\(d\)](#)
- Annex 6 Appendix 5 point 8 words substituted by [S.I. 2022/1273 reg. 83\(5\)\(d\)](#)
- Annex 6 Appendix 7 point 1.4 words substituted by [S.I. 2022/1273 reg. 83\(5\)\(e\)\(ii\)](#)
- Annex 6 Appendix 7 point 2.1 table words substituted by [S.I. 2022/1273 reg. 83\(5\)\(e\)\(v\)](#)
- Art. 3(5) omitted by [S.I. 2022/1273 reg. 82\(4\)\(a\)](#)
- Art. 3(16) words substituted by [S.I. 2022/1273 reg. 82\(4\)\(b\)](#)
- Art. 3(20) words substituted by [S.I. 2022/1273 reg. 82\(4\)\(c\)](#)
- Art. 10(1a) inserted by [S.I. 2022/1273 reg. 82\(8\)\(b\)](#)
- Annex 10a para. 3(f) words inserted by [S.I. 2022/1273 reg. 83\(9\)\(a\)](#)
- Annex 10a para. 3(f) table words substituted by [S.I. 2022/1273 reg. 83\(9\)\(b\)\(c\)](#)
- Art. 12(8) inserted by [S.I. 2022/1273 reg. 82\(10\)](#)