DIN ISO 12219-1:2022-01 (E)

Interior air of road vehicles - Part 1: Whole vehicle test chamber - Specification and method for the determination of volatile organic compounds in cabin interiors (ISO 12219-1:2021)

Contents

Page

National foreword ... **4**

National Annex NA (informative) **Bibliography** ... **7**

Foreword ... **10**

Introduction ... **11**

1 Scope ... **12**

2 Normative references ... **13**

3 Terms and definitions ... **13**

4 Apparatus and materials ... **14**
4.1 General ... 14
4.2 Heating radiator ... 14
4.3 Sampling trains ... 15
4.3.1 Sampling in the test vehicle ... 15
4.3.2 Sampling in the whole vehicle test chamber ... 15
4.3.3 Sampling line ... 15
4.4 Analytical equipment and materials ... 16
4.5 Test vehicle ... 16

5 Principle ... **16**

6 Requirements of the whole vehicle test chamber, test vehicle and measurement procedures ... **17**
6.1 Requirements for the whole vehicle test chamber ... 17
6.2 Requirements for the test vehicle ... 18
6.2.1 General ... 18
6.2.2 Restricting influencing factors ... 19
6.2.3 Requirements for sampling train set up ... 19
6.2.4 Temperature and ventilation ... 20
6.3 Requirements for VOC and carbonyl compound air sampling and measurement methods ... 20
6.4 Blank measurements ... 21
6.4.1 Field blanks ... 21
6.4.2 Analytical blanks ... 21

7 Standard test procedure ... **22**
7.1 General ... 22
7.2 Preparation of the test chamber, vehicle and field blanks ... 22
7.2.1 Pre-arrangements ... 22
7.2.2 Preconditioning of the whole vehicle test chamber ... 22
7.2.3 Preconditioning of the test vehicle ... 22
7.2.4 Field blanks ... 22
7.3 Detailed description of the test procedure ... 23
7.3.1 Ambient mode ... 23
7.3.2 Parking mode ... 23
7.3.3 Driving mode ... 24

8 Results ... **24**

9 Performance characteristics ... **24**

10 Quality assurance/quality control ... **25**