DIN EN ISO 17895:2024-11 (E)

Paints and varnishes - Determination of volatile organic compound (VOC) - Gas-chromatographic method with headspace injection for VOC determination (ISO 17895:2024)

Contents

Page

European foreword ... **3**

Foreword ... **4**

1 Scope ... **5**

2 Normative references ... **5**

3 Terms and definitions ... **5**

4 Principle ... **7**

5 Required information ... **7**

6 Apparatus ... **7**

7 Reagents ... **9**

8 Procedure ... **10**
8.1 Number of determinations ... 10
8.2 Sample preparation ... 10
8.2.1 General ... 10
8.2.2 Dilution of original sample ... 10
8.2.3 Preparation of test samples for analysis without multiple standard additions ... 10
8.2.4 Preparation of test samples for analysis with multiple standard additions ... 10
8.3 Analysis ... 11
8.3.1 General ... 11
8.3.2 Headspace injector ... 11
8.3.3 Gas chromatograph ... 11
8.3.4 Determination of integration end point ... 12

9 Evaluation ... **12**

10 Calculation ... **13**
10.1 General ... 13
10.2 Method 1: VOC content, as a percentage by mass, of the product “ready for use” ... 13
10.3 Method 2: VOC content, in grams per litre, of the product “ready for use” ... 14

11 Precision ... **15**
11.1 General ... 15
11.2 Repeatability limit, *r* ... 15
11.3 Reproducibility limit, *R* ... 16

12 Test report ... **16**

Annex A (informative) **Gas chromatogram of the reference compound mixture and tetradecane** ... **17**

Bibliography ... **18**