

DIN EN ISO 23322:2022-03 (E)

Paints and varnishes - Determination of solvents in coating materials containing organic solvents only - Gas-chromatographic method (ISO 2332 2:2021)

Contents	Page
European foreword.....	3
Foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Units	5
5 Principle	5
6 Apparatus	6
6.1 Gas chromatograph.....	6
6.1.1 General.....	6
6.1.2 Sample injection system.....	6
6.1.3 Oven.....	6
6.1.4 Detector.....	7
6.1.5 Capillary separation column.....	7
6.1.6 Analytical system performance criteria.....	7
6.2 Injection syringe.....	7
6.3 Data processing.....	7
6.4 Sample vial.....	7
7 Reagents	8
7.1 General.....	8
7.2 Internal standard.....	8
7.3 Gases.....	8
7.4 Calibration substances.....	8
7.5 Extraction solvent.....	8
8 Sampling	9
9 Choice of sample injection system	9
10 Procedure	9
10.1 Gas chromatographic conditions.....	9
10.2 Injection volume.....	9
10.3 Calibration.....	9
10.3.1 General.....	9
10.3.2 Preparation of calibration solutions.....	9
10.3.3 Analysis of the multi-point calibration.....	10
10.4 Quality assurance.....	11
10.5 Sample preparation and analysis.....	11
10.5.1 Direct injection.....	11
10.5.2 Head space injection.....	11
10.5.3 Preparation of test samples for analysis without multiple standard additions.....	11
10.5.4 Data acquisition for sample measurement.....	12
11 Quantitative determination of compound content with respect to CSRF	12
12 Expression of results	12
13 Precision	12
13.1 Repeatability.....	12
13.2 Reproducibility.....	13
14 Test report	13
Annex A (informative) Examples for GC method conditions	14
Bibliography	16