

ISO 16000-9:2024-03 (E)

Indoor air - Part 9: Determination of the emission of volatile organic compounds from samples of building products and furnishing - Emission test chamber method

| Contents | | Page |
|---|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 Scope | | 1 |
| 2 Normative references | | 1 |
| 3 Terms and definitions | | 1 |
| 4 Symbols and abbreviated terms | | 3 |
| 4.1 Symbols | | 3 |
| 4.2 Abbreviated terms | | 4 |
| 5 Principle | | 4 |
| 6 Emission test chamber system | | 4 |
| 6.1 General | | 4 |
| 6.2 Emission test chamber materials | | 4 |
| 6.3 Air supply and mixing facilities | | 4 |
| 6.4 Air tightness | | 5 |
| 6.5 Air sampling devices | | 5 |
| 6.6 Recovery and sink effects | | 5 |
| 7 Apparatus | | 5 |
| 8 Test conditions | | 6 |
| 8.1 Temperature and relative air humidity | | 6 |
| 8.2 Supply air quality and background concentration | | 6 |
| 8.3 Air velocity | | 6 |
| 8.4 Area specific air flow rate and air change rate | | 6 |
| 9 Verification of the test conditions | | 7 |
| 9.1 General | | 7 |
| 9.2 Temperature and relative air humidity control systems | | 7 |
| 9.3 Air change rate in the emission test chamber | | 7 |
| 9.4 Emission test chamber air tightness | | 7 |
| 9.5 Air velocity in the emission test chamber | | 7 |
| 9.6 Efficiency of the internal emission test chamber air mixing | | 7 |
| 10 Test specimens | | 8 |
| 11 Emission test chamber preparation | | 8 |
| 12 Test method | | 8 |
| 12.1 Background concentrations | | 8 |
| 12.2 Test specimen location in the emission test chamber | | 8 |
| 12.3 Time for measurements of test chamber air concentration | | 8 |
| 13 Calculation of area specific emission rates and expression of results | | 9 |
| 14 Performance characteristics | | 9 |
| 15 Test report | | 9 |
| Annex A (normative) System for quality assurance and quality control | | 11 |
| Annex B (informative) Examples of loading factors for a model room | | 13 |
| Annex C (informative) General description of an emission test chamber | | 14 |
| Annex D (informative) Determination of the emission rates of seams and cut edges | | 15 |
| Bibliography | | 16 |