

DIN EN 18079:2025-09 (E)

Wood-based panels - Determination of free melamine applying extraction and high-performance liquid chromatography (HPLC) with ultraviolet detection

| Contents | | Page |
|---|--|-------------|
| European foreword | | 3 |
| Introduction | | 4 |
| 1 | Scope | 5 |
| 2 | Normative references | 5 |
| 3 | Terms and definitions | 5 |
| 4 | Principle | 5 |
| 5 | Reagents | 5 |
| 6 | Apparatus | 6 |
| 7 | Sampling | 6 |
| 7.1 | General | 6 |
| 7.2 | Sample preparation | 6 |
| 7.3 | Extraction | 7 |
| 7.3.1 | General procedure solid sample material | 7 |
| 7.3.2 | General procedure liquid sample material | 7 |
| 7.3.3 | Extract dilution for low melamine content | 7 |
| 7.3.4 | Extract dilution for high melamine content | 7 |
| 8 | Procedure | 7 |
| 8.1 | HPLC analysis | 7 |
| 8.1.1 | General | 7 |
| 8.1.2 | Eluent preparation | 7 |
| 8.1.3 | HPLC parameters | 8 |
| 8.1.4 | Calibration | 8 |
| 8.1.5 | Measurement and calculation | 8 |
| 8.1.6 | Detection limits | 9 |
| 8.1.7 | Quality assurance | 9 |
| 8.1.8 | Maintenance | 9 |
| 9 | Test report | 10 |
| Annex A (informative) Example of HPLC parameters | | 11 |
| Annex B (informative) Example for an estimation of detection limits | | 13 |
| Bibliography | | 14 |