

ISO 16664:2017-05 (E)

Gas analysis - Handling of calibration gases and gas mixtures - Guidelines

| Contents | | Page |
|---|---|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Transport and storage | 3 |
| 4.1 | General remarks | 3 |
| 4.2 | Low temperature | 3 |
| 4.3 | High temperature | 4 |
| 4.4 | Water | 4 |
| 4.5 | Storage and handling | 4 |
| 5 | Mode of withdrawal | 4 |
| 5.1 | General | 4 |
| 5.2 | Minimum utilization pressure | 4 |
| 5.3 | Temperature | 5 |
| 5.4 | Pressure reduction and flow | 5 |
| 5.5 | Replacement, change of cylinder positions | 5 |
| 6 | Transfer system | 5 |
| 6.1 | Purging procedure | 5 |
| 6.2 | Considerations when designing and constructing gas transfer lines | 6 |
| 6.2.1 | Modes of gas sampling | 6 |
| 6.2.2 | Pressure- and flow-reducing equipment | 7 |
| 6.2.3 | Material for the construction of transfer lines | 7 |
| 6.2.4 | General methods and examples of sampling systems | 10 |
| 7 | Stability | 13 |
| Annex A (informative) Check on the stability of calibration gas mixtures by end-users | | 14 |
| Bibliography | | 16 |