

Australian/New Zealand Standard™

AS/NZS 3580.2.2:2009

Methods for sampling and analysis of ambient air Method 2.2: Preparation of reference test atmospheres—Compressed gas method

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EV-007, Methods for Examination of Air as an Australian/New Zealand Standard to supersede AS 3580.2.2—1990. The Standard deals with the preparation of reference test atmospheres for ambient air analysers utilizing compressed gas Certified Reference Materials (CRMs).

FOREWORD

The calibration and verification of ambient air analyser response is principally carried out utilizing a compressed gas CRM and associated dilution apparatus. This has resulted in a need to standardize the procedures followed and to specify quality assurance requirements.

METHOD

1 SCOPE

This Standard sets out a method for the preparation of reference test atmospheres containing known concentrations of determinand(s), using a calibration gas dilution method.

The method is applicable to components that do not react with each other, the cylinder walls or the dilution gas, and that remain totally vaporized in the cylinder at all pressures and temperatures anticipated during the preparation and use of the reference test atmosphere.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

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| AS | |
| 2030 | The verification, filling, inspection, testing and maintenance of cylinders for storage and transport of compressed gases |
| 2030.1 | Part 1: Cylinders for compressed gases other than acetylene |
| 2473 | Valves for compressed gas cylinders |
| 2473.1 | Part 1: Specifications, type testing, and manufacturing tests and inspections |