

# Australian/New Zealand Standard™

## Methods for sampling and analysis of ambient air

### Method 2.2: Preparation of reference test atmospheres—Compressed gas method

AS/NZS 3580.2.2:2016

#### 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/NZS 3580.2.2:2009. The Standard deals with the preparation of reference test atmospheres for ambient air analysers utilizing compressed gas Certified Reference Materials (CRMs). The objective of this revision was to re-write the procedure to reflect current practice.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

#### 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.

#### 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.