

# Australian Standard™

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AS 2434.9

## Methods for the analysis and testing of lower rank coal and its chars

### Part 9: Determination of four acid-extractable inorganic ions in lower rank coal

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#### PREFACE

This Standard was prepared by the Standards Australia Committee MN/1, Coal and Coke to supersede AS 2434.9—1991, *Methods for the analysis and testing of lower rank coal and its chars*, Part 9: *Determination of four acid-extractable inorganic ions in lower rank coal*.

This Standard differs from the previous edition in mentioning an ICP-AES method as an alternative to the AAS method.

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#### FOREWORD

The elements sodium, calcium, iron and magnesium are commonly found in lower rank coal. They can contribute significantly to coal utilization problems such as boiler tube fouling and ash disposal; they also affect product quality and gaseous emissions from combustion processes.

The concentrations of these elements, and other elements commonly found in lower rank coal, are determined by a variety of methods. This Standard presents a relatively simple method for the determination of their acid-extractable components.

In order to obtain the greatest benefit from determinations such as those described in this Standard, a thorough understanding of the precise nature and various forms of the inorganic species present is necessary.

