

Australian Standard™

**Eucalyptus oil fractions**

**Part 1: 1,8-Cineole (Eucalyptol)**

This Australian Standard was prepared by Committee CH/21, Essential Oils. It was approved on behalf of the Council of Standards Australia on 30 July 1999 and published on 5 September 1999.

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Australian Society of Cosmetic Chemists  
Australian Society of Perfumers and Flavourists  
Cosmetic Toiletry Fragrance Association of Australia  
Essential Oil Producers Association of Australia  
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**Part 1: 1,8-Cineole (Eucalyptol)**

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## PREFACE

This Standard was prepared by the Standards Australia Committee CH/21, Essential Oils, and is a revision of AS 2247—1979, *1,8-Cineole*.

This Standard is part of a series as follows:

AS

2247 Eucalyptus oil fractions

2247.1 Part 1: 1,8-Cineole (Eucalyptol)

2247.2 Part 2: Eucalyptus oil terpenes (phellandrene fraction)

The objective of this edition is to provide specifications for the oil from chromatographic analysis and the determination of flashpoint.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

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## STANDARDS AUSTRALIA

**Australian Standard**  
**Eucalyptus oil fractions**

**Part 1: 1,8-Cineole (Eucalyptol)**

**1 SCOPE** This specification sets out certain characteristics of 1,8-Cineole.

**2 REFERENCED DOCUMENTS** The following documents are referred to in this Standard:

AS

2106 Determination of the flashpoint of flammable liquids (closed cup)

4550 Essential oils—Sampling

ISO

TR 210 Essential oils—General rules for packaging, conditioning and storage

TR 211 Essential oils—General rules for labelling and marking of containers

279 Essential oils—Determination of relative density at 20°C—Reference method

280 Essential oils—Determination of refractive index

356 Essential oils—Preparation of test samples

592 Essential oils—Determination of optical rotation

875 Essential oils—Evaluation of miscibility in ethanol

7609 Essential oils—Analysis by gas chromatography on capillary columns—General method

TR 11018 Essential oils—General guidance on the determination of the flashpoint

Australian Code for the Transport of Dangerous Goods by Road and Rail

**3 DEFINITION** For the purpose of this Standard, the following definition applies:

**3.1 1,8-Cineole** 1,8 epoxy-*p*-menthane, a constituent of a wide range of Australian plants.

**4 CHARACTERISTICS**

**4.1 General** The characteristics of 1,8-Cineole shall be as set out in Clauses 4.2 to 4.9. The flashpoint value is dependent on the equipment used.

NOTE: See Appendix A for further information on flashpoint determination.

**4.2 Appearance** A clear, colourless to pale yellow liquid, mobile at 20°C.

**4.3 Odour** Characteristic aromatic, camphoraceous odour.

**4.4 Relative density at 20°C/20°C** When determined in accordance with ISO 279, the ratio of the mass of a given volume of the oil to that of an equal volume of distilled water shall be in the following range:

(a) Minimum: 0.920.

(b) Maximum: 0.926.