

# Australian Standard 1175-1976

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## HERBICIDES OF THE PHENOXYACETIC ACID TYPE



**STANDARDS ASSOCIATION OF AUSTRALIA**  
*Incorporated by Royal Charter*

THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Agricultural and Veterinary Chemicals Association

Australian Chemical Industry Council

Australian Farmers Federation

Australian Institute of Agricultural Science

Australian Veterinary Association

CSIRO, Division of Entomology

Department of Health

Department of Primary Industries, Qld

Department of Primary Industry

Department of Public Health, Tas.

Departments of Agriculture

Pest and Weed Control Association of Australia

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To keep abreast of progress in industry, Australian standards are subject to regular review. Suggestions for improvement, addressed to the head office of the Association, are welcomed.

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**AUSTRALIAN STANDARD SPECIFICATION**

**HERBICIDES  
OF THE PHENOXYACETIC  
ACID TYPE**

**AS 1175 — 1976**

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## P R E F A C E

This standard was prepared by the Association's Committee on Pesticides as a revision of AS N50—1965, which it accordingly supersedes. It takes account of developments in the technology of herbicides of the phenoxy-acetic acid type that have occurred since the earlier standard was published.

The revised standard includes specification limits for 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) in 2,4,5-trichlorophenoxyacetic acid (2,4,5-T) and related products, together with a method for determining TCDD. Another important change is the inclusion of requirements for wet technical 2,4,5-T and for the amine salt solutions of technical 2,4,5-T.

Other modifications, in particular, the definition of 'free acidity' (in lieu of 'free phenoxyacetic acids') and amended limits for 'free phenols' and 'free acidity' in certain materials bring these provisions into line with those prescribed in the corresponding FAO specifications.

In relation to methods of test, four methods have been replaced by CIPAC procedures. These are the methods for determining total acid content (Appendix A), free phenols (Appendix D), rate of solution (Appendix G), and MCPA content (Appendix L).

This standard makes reference to the following Australian and British standards:

- AS N26 Glassware and Methods for the Determination of the Percentage of Fat in Milk, Skim Milk, Separated Milk, Butter-milk, and Cream by the Babcock Method
- AS CN1 Code of Recommended Practice in the Sampling of Agricultural Insecticides, Fungicides, and Pest Destroyers
- AS R7 Straight Pipettes for General Laboratory Purposes
- AS R25 Dean and Stark Apparatus
- BS 479 Aromatic Naphthas
- BS 572 Interchangeable Conical Ground Glass Joints.
- BS 593 Laboratory Thermometers.

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## STANDARDS ASSOCIATION OF AUSTRALIA

**Australian Standard Specification  
for  
HERBICIDES OF THE PHENOXYACETIC ACID TYPE**

## SECTION 1. SCOPE AND GENERAL

**1.1 SCOPE.** This specification applies to the following herbicides:

- (a) Technical 2,4-dichlorophenoxyacetic acid and its derivatives and formulations.
- (b) Technical 2,4,5-trichlorophenoxyacetic acid and its derivatives and formulations.
- (c) Technical concentrates of salts of 4-chloro-2-methylphenoxyacetic acid.

**1.2 APPLICATION.**

**1.2.1 Unformulated Herbicides.** Unformulated technical herbicides shall comply with the appropriate clauses of Sections 1 and 2.

**1.2.2 Formulations.** Formulations shall comply with the appropriate clauses of Sections 1, 2 and 3.

**1.3 DEFINITIONS AND ABBREVIATIONS.** For the purpose of this specification, the following definitions and abbreviations apply:

*Total acid*—the total amount of the relevant acid (free and combined) in a derivative or a formulation as determined by the appropriate method given in Appendix A.

*Formulation*—a mixture of one of the above herbicide materials and adjuvants.

*2,4-D*—2,4-dichlorophenoxyacetic acid.

*2,4,5-T*—2,4,5-trichlorophenoxyacetic acid.

*MCPA*—4-chloro-2-methylphenoxyacetic acid.

*TCDD*—2,3,7,8-tetrachlorodibenzo-*p*-dioxin.

**1.4 SAMPLING.** Sampling shall be carried out in accordance with AS CN1, Code of Recommended Practice in the Sampling of Agricultural Insecticides, Fungicides, and Pest Destroyers.

**1.5 LABELLING AND IDENTIFICATION.** In addition to information required by Statutory Authorities, the following shall be shown on the label where applicable: