



## **Road tank vehicles for dangerous goods**

### **Part 1: General requirements for all road tank vehicles**



AS 2809.1:2020

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- Australia New Zealand Industrial Gas Association
- Australian Industry Group
- Australian Institute of Petroleum
- Australian Trucking Association
- Chemistry Australia
- Commercial Vehicle Industry Association of Australia
- Department of Natural Resources, Mines and Energy, Qld
- Department of Transport and Main Roads, Qld
- EPA NSW
- Gas Energy Australia
- Heavy Vehicle Industry Australia
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- National Heavy Vehicle Regulator
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## Preface

This Standard was prepared by the Standards Australia Committee ME-057, Road Tank Vehicles for Dangerous Goods, to supersede AS 2809.1—2008, *Road tank vehicles for dangerous goods, Part 1: General requirements*.

The objective of this Standard is to provide designers, planners, operators and regulators with technical requirements for road tank vehicles transporting dangerous goods.

This Standard specifies general requirements for all road tank vehicles. Additional specific requirements applicable to particular road tank vehicles are detailed in the appropriate part of the AS 2809 series on road tank vehicles, which comprises six parts.

The major changes in this edition are as follows:

- (a) Duplicate clauses on maintenance and multiple tank types from other parts of the AS 2809 series have been amalgamated in this Standard.
- (b) Terms and definitions have been added, improved, and amalgamated from other parts of the AS 2809 series, into this Standard.
- (c) Design and electrical provisions have been revised and amalgamated from other parts of the AS 2809 series into this Standard.
- (d) The static roll-over threshold (SRT) method for stability has been included.
- (e) [Appendix B](#) has been aligned with current practice.

This Standard is intended to serve as a reference Standard for industry and for the various statutory authorities administering regulations for the safe design and maintenance of dangerous goods road tank vehicles. The wording of the title and scope have been chosen to align with the Australian Dangerous Goods (ADG Code).

Authorities and regulations may affect the use of this Standard. Conformance with this Standard does not fulfil all legal obligations. Designers, manufacturers and importers have a legal obligation to ensure, so far as is reasonably practicable, that plant and equipment is without risks to health and safety to workers throughout its life.

The terms “normative” and “informative” are used in Standards to define the application of the appendix to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

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# Australian Standard®

## Road tank vehicles for dangerous goods

### Part 1: General requirements for all road tank vehicles

#### Section 1 Scope and general

##### 1.1 Scope

This Standard specifies general requirements for the design, construction, testing, maintenance and inspection of road tank vehicles, irrespective of the cargo, that are intended for the road transport of dangerous goods. The Standard deals with vehicles that are designed and constructed specifically as road tank vehicles. This Standard is applicable also to conventional vehicles that carry portable or demountable tanks which are filled or discharged while on the vehicle and as a consequence are deemed to be a road tank vehicle for the purposes of the AS 2809 (see Note 1).

NOTE 1 This does not include single filling or discharge of a portable tank in intermodal service.

NOTE 2 The general vehicle and safety requirements are regulated by the Australian Design Rules (ADR) for motor vehicles issued by the Australian Commonwealth Government; these rules are outside the scope of this Standard.

NOTE 3 Throughout this Standard the term “road tank vehicle” is used and has the same meaning as “tanker”.

##### 1.2 Application

Road tank vehicles intended for the transport of dangerous goods shall conform with this Standard, and with such other parts of the AS 2809 series as relevant to the hazards of the particular cargo. Where a cargo has two characteristics, e.g. flammable and toxic and, or where a road tank vehicle is switched from one cargo to another, the requirements of all relevant parts shall apply.

##### 1.3 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document:

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS 1657, *Fixed platforms, walkways, stairways and ladders — Design, construction and installation*

AS 2030.1, *Gas cylinders, Part 1: General requirements*

AS 2809.2, *Road tank vehicles for dangerous goods, Part 2: Road tank vehicles for flammable liquids*

AS 2809.3, *Road tank vehicles for dangerous goods, Part 3: Road tank vehicles for compressed liquefied gases*

AS 2809.4, *Road tank vehicles for dangerous goods, Part 4: Tankers for toxic and corrosive cargoes*

AS 2809.5, *Road tank vehicles for dangerous goods, Part 5: Tankers for bitumen-based products*

AS 2809.6, *Road tank vehicles for dangerous goods, Part 6: Tankers for cryogenic liquids*

AS 3788, *Pressure equipment — In-service inspection*

AS 3992, *Pressure equipment — Welding and brazing qualification*

AS 4037, *Pressure equipment — Examination and testing*

AS/NZS 1891, *Industrial fall-arrest systems and devices (series)*