



# VAPOR PRESSURE TESTING

# Vapor Pressure Testing

Vapor pressure is a critical volatility characteristic that indicates how readily a liquid evaporates at a given temperature. For petroleum products, vapor pressure measurements directly influence fuel performance, storage safety, environmental compliance, and regulatory classification. The Reid Vapor Pressure (RVP) test is the industry-standard method for measuring the absolute pressure exerted by a mixture of air and evaporated liquid at 37.8 °C (100 °F), and it is a mandatory specification parameter for gasoline, naphtha, LPG, crude oil, and aviation gasoline in virtually every major fuel market.

Torontech's vapor pressure testing portfolio centers on the Reid Vapor Pressure tester — a purpose-built instrument engineered for accuracy, repeatability, and compliance with ASTM D323, ASTM D5191, IP 69, EN 13016, and related international standards. Whether you are running quality checks at a refinery, terminal, or independent inspection laboratory, Torontech provides the right Reid Vapor Pressure tester for your throughput and automation requirements.

## APPLICATIONS

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### Applications

Vapor pressure testing is required throughout the petroleum and chemical industries:

- Gasoline blending & quality control: Every batch of motor gasoline must meet seasonal RVP limits set by environmental agencies to control evaporative emissions.
- Crude oil characterization: Reid Vapor Pressure test data helps determine crude oil handling requirements, storage tank design, and pipeline pressure ratings.
- LPG & NGL specifications: Vapor pressure is the primary quality criterion for liquefied petroleum gas; out-of-spec product can cause dangerous pressure build-up in cylinders and vessels.
- Aviation gasoline: AVGAS specifications require strict vapor pressure control to prevent vapor lock at altitude.

- Naphtha & condensate: Trading contracts and storage terminal acceptance criteria routinely include a Reid Vapor Pressure tester measurement.
- Environmental & regulatory compliance: Government fuel quality programs mandate vapor pressure testing to enforce low-evaporative-emission gasoline standards.
- Research & formulation: New fuel blends and bio-components (ethanol, MTBE) must be characterized for their impact on blend Reid Vapor Pressure before market release.

## FEATURES

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# Why Choose Torontech Vapor Pressure Testing Series for Your Operations?

Torontech's Reid Vapor Pressure tester systems are built to deliver consistent, audit-ready results:

- Precision pressure measurement: High-accuracy digital pressure sensors ensure that every Reid Vapor Pressure test reading meets the tight repeatability requirements of ASTM D323 and ASTM D5191.
- Automated temperature control: Precisely regulated thermostatic baths maintain the critical 37.8 °C equilibrium temperature throughout the test, eliminating manual monitoring errors.
- Rapid cycle times: Optimized heating and equilibration protocols reduce test time without compromising accuracy, supporting high-throughput terminal and refinery operations.
- Wide product compatibility: Our Reid Vapor Pressure tester range accommodates gasoline, crude oil, LPG, AVGAS, and specialty fuel samples within a single platform.
- Standards compliance: Every instrument is designed to satisfy ASTM D323, ASTM D5191, IP 69, EN 13016, and GOST R 52947 as applicable.
- Data integration: Digital result output with RS-232/USB connectivity enables direct export to LIMS and quality management systems.



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