

Acetone (2-propanone) is a highly flammable, water-miscible ketone solvent with a characteristic sweet odor. It is one of the most widely used industrial solvents, notable for its excellent solvency for a broad range of organic compounds, complete water miscibility, and relatively low toxicity profile compared to other common solvents. Acetone is naturally produced by the human body and is not classified as a carcinogen or reproductive toxin.

SECTION 1: PRODUCT IDENTIFICATION

Product Name	Acetone
CAS Number	67-64-1
Molecular Formula	C ₃ H ₆ O MW: 58.08 g/mol
GHS Signal Word	DANGER
Key Hazards	H225: Highly flammable. H319: Serious eye irritation. H336: May cause drowsiness/dizziness.
UN Number	UN1090
DOT Classification	Class 3, PG II
Supplier	Cannagas Supply 97 Turnpike Rd, Westborough, MA 01581 877-710-1965 Sales@canna-gas.com

SECTION 2: PHYSICAL & CHEMICAL PROPERTIES

Physical State	Clear, colorless liquid	Density	0.791 g/mL at 20°C
Boiling Point	56.0°C (132.8°F)	Solubility	Completely miscible with water
Flash Point	-20°C (-4°F) — Closed Cup	Vapor Density	2.0 (air=1)
Auto-ignition	465°C (869°F)	Log Kow	-0.24 (miscible)
Vapor Pressure	233 hPa at 20°C	Biodegradable	Readily biodegradable
LEL / UEL	2.5% / 12.8% in air	pH	Neutral ~7.0

SECTION 3: APPLICATIONS & USAGE

General Solvent	Excellent solvency for resins, polymers, cellulose, fats, and many organic compounds.
Cleaning / Degreasing	Widely used for surface cleaning, paint/coating removal, and equipment degreasing.
Laboratory Use	General purpose laboratory solvent; rinse agent for glassware; mobile phase component.
Water Miscibility	Completely miscible with water — useful for gradients and aqueous/organic mixed systems.
Plastic Compatibility	DISSOLVES many common plastics including polystyrene, ABS, and some acrylics. Test compatibility before use.
Preferred Choice	Among common flammable solvents, acetone has a relatively favorable toxicity profile — no carcinogenicity, reproductive, or neurotoxicity classification.

SECTION 4: STORAGE & HANDLING

Storage	Store in sealed containers in a cool, dry, well-ventilated area in a flammable storage cabinet. Keep away from heat, sparks, and ignition sources.
Containers	Compatible with stainless steel, glass. Avoid copper, aluminum alloys for long-term storage.
Handling	Use in well-ventilated area or fume hood. Eliminate ignition sources. Ground/bond containers during transfer to prevent static.
Shelf Life	Minimum 2 years in original sealed containers stored per above conditions.

SECTION 5: SAFETY SUMMARY

GHS Signal Word	DANGER
Key Hazards	H225: Highly flammable. H319: Serious eye irritation. H336: May cause drowsiness/dizziness.
DOT Classification	Class 3, PG II
SDS Reference	Full SDS available. CHEMTREC: 1-800-424-9300.

DISCLAIMER: The information provided in this Technical Data Sheet is based on data believed to be accurate as of the issue date. Cannagas Supply makes no warranty regarding fitness for a particular purpose or accuracy of the information herein. Users are responsible for determining suitability for their specific application. Always refer to the Safety Data Sheet (SDS) for complete safety and regulatory information.