

Acetone

CAS 67-64-1 · C_3H_6O · 99.5% min

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1. Product identity

Product name	Acetone
Synonyms	dimethyl ketone, propanone, acetone solvent, acetone 99.5
C.A.S. number	67-64-1
Molecular formula	C_3H_6O ($CH_3-CO-CH_3$)
Molecular weight	58.1 (ILO ICSC 0087 and NIOSH Pocket Guide)
Grade supplied against	99.5% min
Appearance	Clear, colourless, mobile, volatile liquid with a characteristic sweet mint-like solvent odour
Product group	Solvents & Organic Chemicals
HSN code	2914 11 00
Country of origin	As stated on the producer's documents for the lot supplied; confirmed at offer stage
Packing	ISO tank · 160 kg drum
Storage	Store in the original, tightly closed, correctly labelled container in a cool, dry, well-ventilated, fire-resistant store, away from all sources of ignition, heat, hot surfaces, sparks, open flames and direct sunlight, and separated from oxidisers, acids and bases. Earth and bond drums, tanks and transfer lines and use non-sparking tools and explosion-protected electrical equipment - the liquid is a poor conductor and accumulates static. Keep the store banded and without drain or sewer access. Do not store with foodstuffs. Keep containers closed when not in use; do not use compressed air to transfer.

2. Analytical specification

S. No.	Test parameter	Specification	Method
1	Description	Clear, colourless, mobile, volatile liquid with a characteristic sweet mint-like solvent odour	Visual
2	Identification	Conforms to the substance supplied	Instrumental or chemical test, per method agreed
3	Assay / grade	99.5% min	Titrimetry or instrumental, per method agreed
4	Physical state	Liquid	Visual
5	Solubility in water	Completely miscible with water in all proportions; also miscible with ethanol, diethyl ether and most organic solvents	Per the test method agreed

S. No.	Test parameter	Specification	Method
6	pH	Not applicable - acetone is a neutral, non-ionising organic liquid and no meaningful aqueous pH is defined. Producer SDSs state 'not applicable'. Commercial 99.5% grades specify acidity as % free acid (as acetic acid) rather than pH.	Potentiometry
7	Relative density	0.79 g/cm ³ at 20 C (relative density 0.79, water = 1); vapour density about 2.0 relative to air, so vapour sinks and travels along the ground	Densitometry / hydrometry
8	Melting / freezing point	-95	Capillary / thermal
9	Boiling point	56 (producer sheets give 55-57 C; NIOSH gives 133 F = 56.1 C)	Distillation range
10	Flash point	-18 C closed cup (ILO ICSC 0087). Producer sheets give -17 C and the NIOSH Pocket Guide gives 0 F (-17.8 C). Always quote the closed-cup value and say so.	Closed cup
11	Additional parameters	To the specification agreed before order	As agreed

3. Transport classification

UN 1090 · Class 3 (flammable liquid) · Packing group II

Proper shipping name: ACETONE

What this document is. This is a product specification sheet. It states the grade this material is supplied against, its packing and its identity. **It is not a certificate of analysis, it carries no test results, and it certifies no batch.** Tested values for the consignment actually loaded appear on the batch certificate of analysis issued against that batch, which travels with the despatch documents. Identity and physical data are drawn from PubChem, the ECHA CLP inventory and ILO safety cards; the producer's documents for the grade quoted govern. Velora Chemicals Private Limited is a bulk supplier and trader, not a manufacturer.