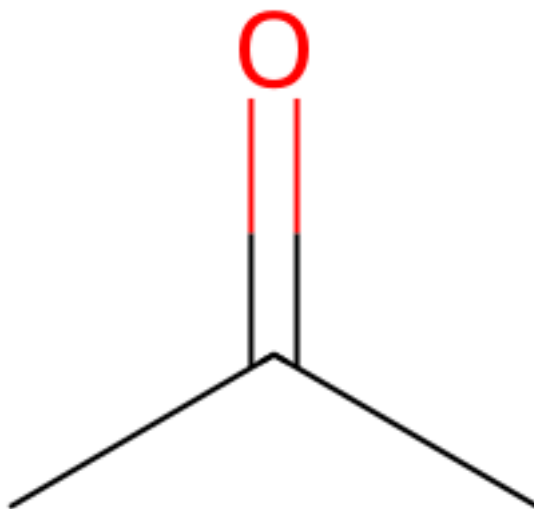


ACETONE

propan-2-one

Formula	C ₃ H ₆ O
Mol. wt.	58.0419 g/mol
InChIKey	CSCPPACGZ00CGX-UHFFFAOYSA-N

1. MOLECULAR STRUCTURE 2D



2. HAZARD IDENTIFICATION (GHS)

Signal word: DANGER

Hazard pictograms:



Flammable

Hazard statements (H)

- H373: May causes damage to organs through prolonged or repeated exposure [Warning Specific target organ toxicity, repeated exposure]

Precautionary statements (P)

- P203, P210, P233, P240, P241, P242, P243, P260, P261, P264+P265, P271, P280, P301+P316, P303+P361+P353, P304+P340, P305+P351+P338, P318, P319, P331, P337+P317, P370+P378, P403+P233, P403+P235, P405, and P501

3. NFPA 704 SYSTEM



Quadrant	Value	Description
Health (blue)	1	Slight irritation
Flammability (red)	3	Burns below 37 °C
Reactivity (yellow)	0	Stable

NFPA 704 scale: 0 = no hazard | 1 = slight | 2 = moderate | 3 = serious | 4 = severe

4. ACUTE TOXICITY

LD50 data not available.

5. RELEVANT PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Unit	Source
Boiling point	133 °F at 760 mmHg (NTP, 1992)	—	pubchem_pugview
Density	0.791 at 68 °F (USCG, 1999) - Less dense than water; will float	—	pubchem_pugview
LogP (experimental)	log Kow = -0.24	—	pubchem_pugview
Flash point	0 °F (NTP, 1992)	—	pubchem_pugview
Melting point	-137 °F (NTP, 1992)	—	pubchem_pugview
Vapor pressure	180 mmHg at 68 °F ; 270 mmHg at 86 °F (NTP, 1992)	—	pubchem_pugview
Water solubility	greater than or equal to 100 mg/mL at 72 °F (NTP, 1992)	—	pubchem_pugview

IMPORTANT LEGAL DISCLAIMER

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Official SDS sources:

- Sigma-Aldrich (Merck): <https://www.sigmaaldrich.com/search?q=ACETONE>
- Fisher Scientific: <https://www.fishersci.com/us/en/catalog/search/sds?query=ACETONE>
- PubChem (source data): <https://pubchem.ncbi.nlm.nih.gov/#query=ACETONE>
- GESTIS (database): <https://gestis-database.dguv.de/>

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