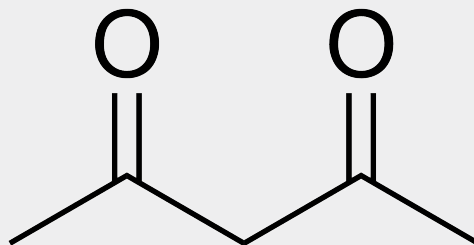


# Acetylacetone (ACAC)

## Diketones

Clear, colourless liquid with a pleasant, ketone-like odour  
Synonyms: 2,4-Pentanedione, Pentane-2,4-dione, Hacac

CAS No. 123-54-6 | Empirical formula  $C_5H_8O_2$  | Molecular weight 100.12



## Technical data

### Specification

Property	Condition	Value	Method
Acetic acid	-	max. 0.05 %	GC
Acetylacetone	-	min. 99.5 %	GC
Color Index	-	max. 20 Hazen	DIN ISO 6271
Other impurities each single one	-	max. 0.1 %	GC
Water	-	max. 0.1 %	DIN 51777

## General Characteristics

Property	Condition	Value	Method
Boiling point	-	139.5 °C	EU-GL.A.2
Density	20 °C	0.9732 g/cm <sup>3</sup>	EU-GL.A.3
Flash point	-	34 °C	DIN 51755
Ignition temperature	-	383 °C	EU-GL.A.15
Lower explosion limit	-	1.7 Vol-%	Lit.
Melting point	-	-47.5 - -17.6 °C	EG-RL.A.1
Solubility in water	20 °C	154.5 g/l	OECD 105
Upper explosion limit	20 °C	11.4 Vol-%	-
Vapour pressure	20 °C	7.9 hPa	OECD 104
pH	175 g/l   22 °C	3.2	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

## Applications

- Agrochemical Solutions
- Catalysis
- Paints, Coatings, Inks
- Pharma

## Application details

Building block for heterocycles (isoxazoles, pyrazoles, pyrimidines, pyridines).

For the synthesis of metal acetylacetonates.

For the synthesis of anti-corrosion preparations.  
Its peroxide is used as radical initiator for polymerisations.

Building block for the synthesis of pharmaceuticals (e.g. Sulfamethazine, Nicarbazine).

For synthesis of vitamins.

For synthesis of pesticides (e.g. Sulfamethazine, sulfonyleurea-herbicides).  
For synthesis of coatings.

## Packaging and storage

### Packaging

Drum with PE-inner liner 205l (185 kg net)

Intermediate bulk container PE 1000 l (950 kg net), tank-container, road-tanker.

### Storage

Storage stability for at least: 24 months

Storage beyond the recommended period does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

## Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

## QR Code Acetylacetone (ACAC)



### For technical, quality or product safety questions, please contact:

**Wacker Chemie AG**, Hanns-Seidel-Platz 4, 81737 Munich, Germany  
[productinformation@wacker.com](mailto:productinformation@wacker.com), [www.wacker.com](http://www.wacker.com)

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.