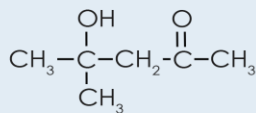


Diacetone Alcohol (DAA)

Solvent In Motion



PRODUCT IN FOCUS



Diacetone Alcohol

INTRODUCTION

Diacetone Alcohol (DAA) is an aliphatic hydroxy ketone produced through the base-catalysed aldol addition of two acetone molecules. It contains both ketone and tertiary hydroxyl functionalities, offering excellent solvency and chemical reactivity.

As a high-boiling oxygenated solvent and valuable chemical intermediate, DAA finds broad application in paints and coatings, printing inks, adhesives, industrial cleaning, cosmetics, and textiles. It is also used as an intermediate in the production of mesityl oxide and MIBK. (4-methylpentan-2-one).

Manufacture

Diacetone Alcohol is manufactured by reacting two molecules of acetone under controlled alkaline conditions. The resulting mixture is then neutralized, purified, and distilled to obtain high-purity Diacetone Alcohol.

Applications

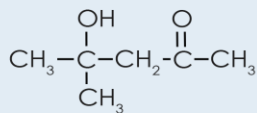
Some of the key applications are as follows;

- ✚ **Paints & Coatings**
Solvent for resins, lacquers and coatings; improves flow and levelling.
- ✚ **Printing Inks**
Solvent/co-solvent in printing ink formulations; helps dissolve binders and improve application properties.
- ✚ **Adhesives**
Used as a solvent for selected resin and adhesive systems.
- ✚ **Cleaning & Degreasing**
High-boiling solvent for industrial and metal-cleaning applications.
- ✚ **Chemical Intermediate**
Used to produce mesityl oxide, MIBK (4 methylpentan-2-one).and other chemicals.
- ✚ **Cosmetics & Personal Care**
Used as a solvent in selected formulations.
- ✚ **Textile & Leather**
Solvent for resins and finishing formulations.
- ✚ **Agricultural Chemicals**
As a Solvent/carrier component in certain pesticide and agrochemical formulations.
- ✚ **Laboratory**
Organic solvent for extraction, cleaning and chemical synthesis.

Synonyms	4-hydroxy-4-methylpentan-2-one
CAS no.	123-42-2
EINECS no.	204-626-7
Molecular Formula	C ₆ H ₁₂ O ₂
Molecular Weight	116.16
Structure	$\begin{array}{c} \text{OH} \quad \quad \text{O} \\ \quad \quad \\ \text{CH}_3 - \text{C} - \text{CH}_2 - \text{C} - \text{CH}_3 \\ \\ \text{CH}_3 \end{array}$

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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Clear Liquid, free from suspended matter
Color	(Pt – Co)	Max. 25.0
Water miscibility	-	Should pass the test
Acidity as acetic acid	%	Max. 0.01
Moisture Content	%	Max. 0.10
Distillation Range	°C	145.0 – 170.0
Specific Gravity (at 20° C)	-	0.938 – 0.941
Non-volatile matter	g/ 100ml	Max. 0.01
Purity (By GC)	%	Min. 99.0

PACKING

195 Kg metal drums/ Tanker Load/ ISO Tank

STORAGE

Store in a cool, well-ventilated place, out of direct sunlight

REACH status

Registered

ExSyn offers Diacetone Alcohol on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.