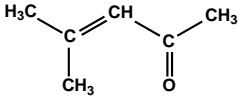


MESITYL OXIDE

- Acronym : OM
- Synonym : 4-Methylpent-3-en-2-one
- CAS number : 141-79-7
- ECnumber : 205-502-5
- REACH registration number :01-2119493103-44-0000

MAIN PROPERTIES

	Values	Arkema methods	Norms references
Composition	$C_6H_{10}O$: 		
Appearance at 20°C	Clear liquid free from suspended materials	LCR 1116	ASTM D 4176
Purity (isomers mixture, % by weight)	≥ 99.0	LCR 2153	GC
Water Content (% by weight)	≤ 0.20	LCR 1007	ASTM D 1364
Density at 20°C (g/cm ³)	0.852 - 0.856	LCR 1062	ASTM D 4052

The above commercial specifications are guaranteed; they were established using the test methods which were in force at the plant at the time of despatch of the product, and are in accordance with any applicable revision references. .

MAIN APPLICATIONS

- **General industry** : Manufacturing of ketones, glycol ethers, MIBK, MIBC , DIBK....
- **Perfume and fragrance** : intermediate for synthesis
- **Pharmaceuticals : Synthesis** of Vitamin C derivatives (ascorbic acid esters....)
- **Others** : good solvents for PVC paint and coatings, preparation of concentrated solutions of herbicides and fungicides, flotation agent, synthesis of organic peroxides,

- For further informations, please contact our technical services

MESITYL OXIDE

PACKAGING

Mesityl oxide is supplied in bulk by road tankers, isocontainers and in drums of net weight 180 kg.

STORAGE / SAFETY / PRECAUTIONS DURING USE / HANDLING

Please refer to the safety data sheet before any use. Typical shelf life at 25°C is 12 months.

PHYSICAL DATA

Molecular weight.....	98.15
Boiling point at 1013 hPa	129.8 °C
Vapor pressure at 20°C	11 hPa
Relative evaporation rate (n-butyl acetate = 1)	0.94
Freezing point	- 53 °C
Viscosity at 20°C.....	0.6 mPa.s
Surface tension at 20°C	28.5 mN/m
Refractive index at 20 °C.....	1.444
Latent heat of vaporization	368 kJ/kg
Specific heat (liquid at 20°C)	2.15 kJ/kg/K
Heat of combustion at 25°C.....	33940 kJ/kg
Flash point (closed cup)	28 °C
Autoignition temperature	344 °C
Explosivity limits in air (lower / upper).....	1.3 / 10.1 % (v/v)
Electrical conductivity at 22 °C	0.8 µS/m
Water solubility at 20 °C: - MO in water (mass fraction)	2.8%
- water in MO (mass fraction)	3.4%
Azeotrope with water: - boiling point at 1013 hPa	91.8 °C
- water content (% w/w)	24.8 %
Hansen solubility parameters at 25°C (δ_t , δ_d , δ_p , δ_h)	18.9 / 16.4 / 6.1 / 6.1 MPa ^{1/2}

Updated: January 08, 2020 Revision: 3 File n°: 30.GA.03.2014

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

This grade is suitable for many different applications. Therefore, any use of our grade as finished products intended to be used in specific markets including but not limited to drinking water treatment, cosmetics, pharmaceuticals products, food additives is under the sole responsibility of the Client. The Client must assume all risks and liability in connection herewith

See MSDS for Health & Safety Considerations

Arkema Thiochemicals
420, rue d'Estienne d'Orves
92705 Colombes Cedex - France
arkema.com - arkema.com/amines

 **transchem**
2141 Palomar Airport Rd. Suite 125
Carlsbad, CA 92011
P:760.431.6310 | F:760.431.6312
www.transcheminc.com

ARKEMA
INNOVATIVE CHEMISTRY