

**Isophorone** 

# 3,5,5-Trimethyl-2-cyclo-hexen-1-one Isoacetopherone

C(O)CH:C(CH<sub>3</sub>)CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>CH<sub>2</sub>

### **Description**

Isophorone is a stable, colorless liquid with a mild peppermint-like odor. It is a high-boiling, low vapor pressure solvent.

### **Physical properties**

Molecular Weight	138.21
Relative Evaporation Rate nBuAc=1	0.02
Vapor Pressure at 20°C, mmHg	0.1
Density at 20°C lb/gal	7.70
Specific Gravity at 20/20°C	0.9229
Viscosity at 20°C cP	2.6
Surface Tension	
(dynes/cm at 20°C)	31.6
(dynes/cm at 25°C)	31.2
Hansen Solubility Parameters, [cal/cm <sup>3</sup> ] <sup>1/2</sup>	
Total	9.7
Non-Polar	8.1
Polar	4.0
Hydrogen Bonding	3.6
Boiling Point, °C at 760mm Hg	215.2
Melting Point C	-8.1
Solubility at 20°C	
%Wt In Water	1.46
%Wt Water in	4.2
Closed Cup Flash Point °F	190
SARA 313 (see note 1†)	N
Hazardous Air Pollutant (see note 2††)	Υ
Electrical Resistivity MΩ	<0.1

Note 1: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III Section 313

### **Classification/Registry Numbers**

CAS Number	78-59-1
EINECS	201-126-0

(Please see second page)

<sup>††</sup> Note 2: Hazardous Air Pollutants listed under Title III of the Clean Air Act

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#### **Features**

- Slightly soluble in water
- Miscible with most lacquer solvents
- High solvency power
- High dilution ratio for aromatic hydrocarbons
- Leveling aid for a variety of resins

### **Applications**

- Choice solvent for many natural and synthetic polymers
- Solvent fats and oils
- Solvent for vinyl chloride-acetate based coatings
- Solvent for nitrocellulose lacquers
- Carrier solvent for pesticides and herbicides
- Solvent for lacquer thinners
- Solvent for stencil pastes
- Solvent for printing inks
- Solvent for adhesives
- Chemical intermediate

#### How supplied

Region	Packaging	Transport Mode
Latin America	Bulk or Drum	Tank Truck
North America	Bulk	Tank Truck/Tank Car

Note: Consult the appropriate Material Safety Data Sheet for safety and handling guidelines for this product.

### The Dow Chemical Company Danbury, Connecticut 06817 U.S.A.

In the United States and Canada, Product Information: 1-800-447-4369; Fax: 1-989-832-1465; Technical Support: 1-800-SOLVENT In Europe: +800 3 694 6367; Toll Phone: +32 3 450 2240: Toll Fax: +32 3 450 2815

In the Pacific: +800 7776 7776; Fax: +800 7779 7779 In Other Global Areas: 1-989-832-1556; Fax: 1-989-832-1465

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