

## Technical Data Sheet

### Para-Nitro Cumene

#### 1- Introduction

Ortho-Nitro Cumene is a yellow to green coloured, clear liquid with characteristic odour. It is almost insoluble in water. It is stable under recommended storage conditions & decomposes on heating producing toxic fumes (nitrogen oxides). Keep away from oxidizing agents & ignition sources.

Product Name: - ortho-Nitro Cumene

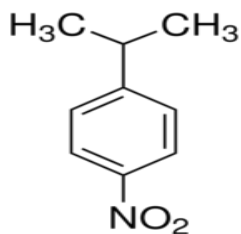
Synonyms: - Cumene-p-nitro-; p-Isopropylnitrobenzene; p-Nitrocumene;  
p- Nitroisopropylbenzene; 1-Isopropyl-4-nitrobenzene;  
2-(p-Nitrophenyl) propane; 4-Nitrocumene; 4-Nitroisopropylbenzene;  
4-Isopropylnitrobenzene,

CAS No. 1817-47-6

UN No. 2810

Mol. Formula: - C<sub>9</sub>H<sub>11</sub>NO<sub>2</sub>

Structural Formula:-



Mol. Weight: - 165.1892



## 2- Physical Properties:

Sr. No.	Properties	Para-Nitro Cumene
1-	Appearance	Clear liquid
2-	Colour	Yellow to green.
3-	Odour	Characteristic odour.
4-	pH(1%Solution)	3.9
5-	Boiling Point/range	128°C (262°F) (12 mmHg)
6-	Flash Point	99.9 °C (closed up)
7-	Auto ignition temperature	435 °C
8-	Vapor Pressure	0.0728 Torr Temp: 25 °C
9-	Density	1.091 g/cm <sup>3</sup> Temp: 20°C
10-	Solubility water	< 0.1 %
11-	Decomposition	Decomposes on heating producing toxic fumes (nitrogen oxides)



### **3. Product Quality Specification:**

Sr. No.	Test Parameter	Specification
1-	Appearance	Dark red to brown colour clear liquid.
2-	PNC (by GC )	98.5 % Min.
3-	ONC + MNC (by GC)	1.0 % Max.
4-	Moisture (KF)	0.20 % w/w Max.

### **4. Packing Information:**

Sr. Number	Grade	Packing	Secondary Packing
1-	200 Kg capacity MS drum/ Tanker	200 kg of ortho-Nitro Cumene packed in MS drum capacity 215 lit. or in tanker.	-----

DNL can customize packing for different quantities.

### **5. PRODUCT USES :**

#### **1- In pigments & Dye stuffs :-**

It is used as an intermediate for manufacturing of bulk intermediates FNS and performance imaging and color intermediates and dyestuffs.

#### **2- In Chemical manufacturing: -**

It is used as an intermediate for manufacturing of ortho-cumidine.



### 3- In agriculture: -

It is used as an intermediate for manufacturing of Agrochemicals.


### 4- In pharmaceutical :-

It is used as an intermediate for manufacturing of pharmaceutical products.

### 5- In rubber industries:-

It is used as an intermediate for manufacturing of rubber chemicals and other target organic Molecules.

### 6. Regulatory Information:-

Particulars	Information	Pictogram
Hazard Class	6	
Label	Warning	
		
Subsidiary Label	Aquatic Toxic	
UN Number	2810	
Proper shipping Name	para-nitro cumene	
Packing Group	II	

RTECS#: Data not available.



## **7. PRODUCT SAFETY INFORMATION:**

ortho-Nitro Cumene may irritate skin and eye. If inhaled may cause respiratory tract irritation & may be harmful if swallowed. It is stable under recommended storage conditions. Materials separated from oxidizing agents. As with any chemical, ortho-Nitro Cumene requires care in handling. Anyone responsible for the procurement, use or disposal of this product should familiarize himself and those handling the product with the appropriate safety and handling precautions. This information is available in the Material Safety Data Sheet, which may be obtained by contacting our representative.

## **8. Manufacture Site:**

Deepak Nitrite Limited (APL Division)  
Plot No. 1 to 6, 26 to 31, MIDC Industrial Area, Dhatav, Roha,  
Dist. Raigad 402 116, Maharashtra.  
Phone No. 02194 263550/263750

## **9. Corporate Headquarter: :**

Deepak Nitrite Ltd.  
Aaditya-I, National Highway No. 8, Chhani Road,  
Vadodara - 390 024,  
India  
Ph. No (0265) 2765200

## **10. For Chemical Emergency:**

Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1 703-527-3887



**Disclaimer:**

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Deepak Nitrite Ltd

