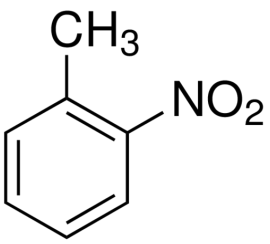
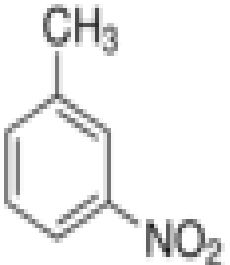
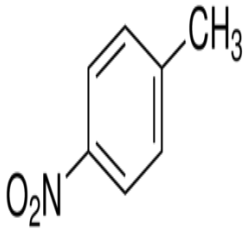




Technical Data Sheet

1. Introduction

NT isomer is a mixture of ONT / PNT & MNT . ONT & MNT with yellow coloured liquid while PNT is yellow coloured liquid at 65 C

Sr No	Information			
01	Product	ONT	MNT	PNT
02	Other/Generic Names	alpha-Methylnitrobenzene; 2-Nitrotoluene, o-nitrotoluol	Metanitrotoluene, 3-Nitrotoluene m-nitrophenylmethane 3-methylnitrobenzene 3-nitrotoluol, 1-methyl-3-nitrobenzene,	Paranitrotoluol 4-Methylnitrobenzene 1-Methyl-4-nitrobenzene p-Methylnitrobenzene 4-Nitrotoluene
03	CAS No	88-72-2	99-08-1	99-99-0
04	Molecular Formula	C ₇ H ₇ NO ₂		
05	Molecular Weight	137.14		
06	Structural Formula			



2. Physical Properties:

Sr No	Properties	ONT	MNT	PNT
01	Physical state	Liquid	Liquid	Liquid at 65 C or solid fused at RT
02	Appearance	Yellow	Greenish yellow	Yellow
03	Odour	: Aromatic	: Aromatic	: Aromatic
04	Boiling Range	223 - 227 ° C	230 – 231 ° C	236 - 240 ° C
05	Melting Point	- 3 to – 4 ° C	14 to 16 ° C	51 to 53 ° C
06	Flash Point (Closed Cup)	95 ° C	102 ° C	106 ° C
07	Solubility in Water at 20 ° C	0.44 g/L	0.419 g/l	0.345 g/l
08	Solubility in other solvent	Soluble in Alcohol, Ether and Benzene		
09	Stability	The product, stored in shaded area/ Go down, is stable at ambient temperature .		
10	Density	1.2 at 20 ° C	1.157 at 25 ° C	1.3 at 20 ° C

3. Product Quality Specification :

No.	Tests	Limits for ONT	Limit for PNT	Limit for MNT	Method Ref.
1	Appearance	Yellow colour liquid	Yellow colour liquid at 65°C	Greenish yellow colour liquid	Visual
2	ONT by GC	99.50 % w/w Min.	----	---	NQA 920
3	MNT by GC	0.50 % w/w Max.	0.40 % w/w Max.	99.00 % w/w Min.	NQA 920
4	PNT by GC	0.20 % w/w Max.	99.60 % w/w Min.	1.0 % w/w Max (ONT + PNT)	NQA 920
5	Others by GC	0.20 % w/w Max.	0.20 % w/w Max.	0.10 % w/w Max.	NQA 920
6	Water by Karl Fischer	0.10 % w/w Max.	0.05 % w/w Max.	0.10 % w/w Max.	NQA 509
7	Set Point	---	51 ° C Min	---	NQA 523



4. Packing Information:

Sr. Number	Grade	Packing	Secondary Packing
03	ONT/PNT/MNT	SS or MS tanker . Jacked or coiled for PNT	
02	ONT/PNT	225 MS Drum	

DNL Can customize packing for different quantities

USEAGE

ONT :

Ortho nitrotoluene is used in the synthesis of intermediates for azo dyes, sulfur dyes, rubber chemicals and agricultural chemicals. It is used in manufacture of Intermediates such as o-toluidine, o-nitrobenzaldehyde, 2-amino, 4-chlorotoluene 2-nitro, 6-chloro toluene, 2-amino 4 chlorotoluene (fast scarlet TR base) and 2-amino 6-chlorotoluene (Fast red KB base);

MNT :

Manufacture of

- 1) m-toluidine by reduction process
- 2) m-nitrobenzoic acid & m-nitrobenzaldehyde by oxidation process
- 3) .4 dinitro-toluene , 2,3 dinitrotoluene and 2,5 – dinitrotoluene. By nitration process.
- 4) Intermediates for dyestuffs and photographic developers

PNT :

Para nitrotoluene is used principally in the production of intermediates for azo and sulfur dyes. Intermediate such ase p-toluidine, p-nitro toluene sulfonic acid and DASDA. It is also used in manufactures of p-nitrobenzaldehyde and 4-nitro 2 chloro toluene.



6. Regulatory Information :

Particulars	Information	Pictogram
Hazard Class	6.1	
Label	Toxic	
Subsidiary Label	Danger	
UN Number	1664	
Proper shipping Name	Nitrotoluenes liquid	
Packing Group	II	

REACH Details:

ONT	88-72-2	01-2119433819-29-0003	Registered
PNT	99-99-0	17-2119380509-30-0000	Active
MNT	99-08-01	05-2115864347-37-0000	Active

7. PRODUCT SAFETY INFORMATION :

Avoid contact with skin and eyes., inhalation of vapour or mist. It is harmful if swallowed. It is toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. It may cause cancer. Or genetic defects. Suspected of damaging fertility . It cause damage to organs through prolonged or repeated exposure .

As with any chemical, **Nitro Toluene** 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 Customer Service Group

8. Manufacture Site :

Deepak Nitrite Ltd.
 4-12 GIDC Chemical Complex
 Nandesari
 Dist. Vadodara – 391 340
 Gujarat
 India



9. Corporate Headquarter: :

Deepak Nitrite Ltd.
Aaditya-I, National Highway No. 8, Chhani Road,
Vadodara - 390 024,
India

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 :

The information published in this Technical Data Sheet has been compiled with the basic objective of selling and use of Sodium Nitrite that meet basic quality requirements. Information presented herein has been considered to be accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. The information is provided without any representation of warranty, expressed or implied, regarding the accuracy or correctness. It is the user's responsibility to determine the accuracy or suitability of this information. Deepak Nitrite assume no responsibility for the accuracy or suitability of such information for application to the purchaser's intended purpose or for consequences of its use. Adoption of necessary safety precautions, for any intended usage, shall remain the user's responsibility.

Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment. Deepak Nitrite assumes no responsibility for injury to user or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the Material Safety Data Sheet. Additionally, Deepak Nitrite assumes no responsibility for injury to user or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. The conditions or methods of handling, storage, and / or use of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, and / or use of this product.

All information provided herein is intended for use by persons having requisite knowledge, skill and experience in the chemical industry.