

o-TOLUIDINE FOR SYNTHESIS

□□□□□□□□

□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

SDS Reference Number: 06344

□□ □□□□: 4/9/2014 □□ □□□□: 4/28/2025 □□ □□: 4/9/2015 □□: 1.0

□□ 1: □□□□□ □□□ □□ □□

1.1. □□□□

□□ □□

: □□

□□ □□

: o-TOLUIDINE FOR SYNTHESIS

EC □□ □□

: 612-091-00-X

EC □□

: 202-429-0

CAS □□

: 95-53-4

□□ □□

: 06344

□□ □□

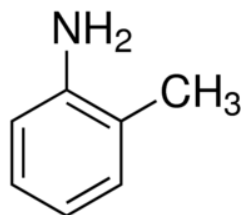
: □□□ □□

□□ □□

: C7H9N

□□ □□

:



□□ □□

: o-Methyl aniline, o-Toluidine, 1-Amino-2-methyl benzene, 2-Aminotoluene, 2-Toluamine

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□

□□□□/□□□□ □□

: Laboratory chemicals, Manufacture of substances

1.3. □□□□□□□□ □□□ □□

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba

400005 Mumbai

INDIA

T +91 22 6663 6663, F +91 22 6663 6699

info@lobachemie.com, www.lobachemie.com

1.4. □□□□□□

□□ □□ □□

: + 91 22 6663 6663 (9:00am - 6:00 pm)

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

Regulation (EC) No.1272/2008 [CLP] □□ □□ □□

□□ □□ (□□), □□ 3

H301

□□ □□ (□□), □□ 3

H331

□□ □ □□□/□ □□□, □□ 2

H319

□□□, □□ 1B

H350

□□□□ □□□ - □□, □□ 1

H400

□□(H) □□ □ EUH □□ □□: 16□ □□.

□□□□□, □□ □□ □ □□□□□□□

□□ □□□ □ □□. □□□□ □□□. □□□□ □□□. □□ □□ □□□ □□□. □□□□□ □□ □□□.

o-TOLUIDINE FOR SYNTHESIS

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□□□ □ : □□ □□ □□□□ □□□□. □□□□ □□□□□□ □□□□□□. □□ □□□□. □□ □□□ □□□□: □□□ □□/□□□ □□□□. □□ □□□ □□□□: □□□□ □□/□□□ □□□□.

□□□ □ : □□ □□□□□. Obtain emergency medical attention. □□ □□□□/□□□ □□□ □□□□□□. □□ □□□ □□. Call a physician immediately.

First-aid measures for first aider : □□□□ □□□□ □□□ □□ □□ □□□ □□□□ □□□□.

4.2. □□ □□ □□□□ □□ □□□ □□ □□□

□□/□□ : □□ □□□ □□□.

□□ □ □□/□□ : □□□□ □□□□.

□□ □□ □ □□/□□ : None under normal conditions.

□ □□ □ □□/□□ : □□ □□ □□□ □□□. Eye irritation.

□□ □ □□/□□ : □□□ □□□□.

4.3. □□□□ □□ □ □□ □□ □□ □□ □□ □□

Treat symptomatically.

□□ 5: □□·□□□□ □□□□

5.1. □□□□ □□□□

□□□ □□□ : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam. Carbon dioxide.

□□□□ □□□□ : Do not use a heavy water stream.

5.2. □□□□□□□□ □□□□ □□ □□□□

□□ □□ : No fire hazard.

□□ □□ : No direct explosion hazard.

□□ □ □□□ □□□ □□ : Toxic fumes may be released.

5.3. □□□□ □□□□ □ □□□□□

□□ □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

□□ □□ □ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□□□□□. Complete protective clothing.

□□ 6: □□□□□□ □□□□□

6.1. □□□□ □□□□ □□ □□□□ □□□□ □ □□□□

□□ □□ : □□□□ □□□□ □□ □□□□ □□□ □□□□. □□□□ □□□ □□ □□□□□ □□□ □□ □□□ □□ □□□□ □□□□□□.

□□□ □□ □□ : Wear recommended personal protective equipment.

□□ □□ : Evacuate unnecessary personnel. □□□ □□ □□□ □□□ □□□ □□□ □ □□. □□□/□□□/□□ □□□/□□□□□ □ □□□ □□□□□.

□□ □□ □□ : Do not attempt to take action without suitable protective equipment. □□□□ □□ □□□□ □□□□□□. □ □□□ □□□ □□ 8: "□□□□ □ □□□□□" □□□□□□.

□□ □□ : Stop release. Evacuate unnecessary personnel. □□□□ □□□□ □□ □□□□ □□□ □□□□.

6.2. □□□□ □□□□ □□ □□□□ □□□□□

□□□□ □□□□ □□□□. □□□□□□ □□ □□□□. □□□□ □□□ □□ □□□□□□ □□□ □□ □□□ □□.

6.3. □□ □□ □□ □□ □□

□□□□ : □□□□ □□□□□. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

o-TOLUIDINE FOR SYNTHESIS

□□□□□□□□

□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

□□□:

Protective gloves

□□□ □□

□□□ □□:

Wear appropriate mask

□□ □□ □□

□□ □□ □□:

□□□□ □□□□ □□□.

□□ 9: □□□□□ □□

9.1. □□□□ □□□□□ □□□ □□ □□

□□□ □□	: □□
□□	: Yellow to light brown.
□□	: Clear liquid.
□□□	: 107.16 g/mol
□□	: amine like.
□□ □□	: □□□□
□□□	: □□□□
□□□	: -23.68 °C
□□ □□□□ □□□ □□	: 200 – 202 °C
□□□	: □□□
□□ □□□	: 1.5 vol %
□□ □□□	: 7.5 vol %
□□□	: 85 °C
□□□□ □□	: 480 °C
□□ □□	: □□□□
pH	: 7.5 (8.5 g/L Aqueous solution)
□□(□□□)	: 3.831 mm ² /s
□□(□□□□)	: 3.823 mPa·s at 25 °C
□□□	: □: 1.5 g/100ml at 25 °C
	□□□: Miscible in Ethanol
	□□□: Miscible in Diethyl ether
Partition coefficient n-octanol/water (Log Kow)	: □□□□
□□□	: 0.35 hPa at 25 °C
50°C□□□□ □□□	: □□□□
□□	: 0.998 g/cm ³ at 20 °C
□□	: □□□□
20°C□□□□ □□ □□ □□	: 3.7 (Air = 1)
□□ □□	: □□□□

9.2. □ □□ □□□□

□□ □□

□□ 10: □□□ □ □□□

10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

10.2. □□□ □□□

Stable under normal conditions of use.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

o-TOLUIDINE FOR SYNTHESIS

□□□□□□□□

□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

10.4. □□□ □□□

□□□□. Overheating. □.

10.5. □□□ □□□

□□ □□

10.6. □□□ □□□□ □□□□

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

□□ 11: □□□ □□ □□

11.1. □□ (EC) No 1272/2008 □□□□, □□□□ □□□□ □□ □□

□□ □□ (□□) : □□□ □□□.
□□ □□ (□□) : □□□□ □□
□□ □□ (□□) : □□□□ □□□.
□□ □□□□ □□ □□□ : □□□□ □□
pH: 7.5 (8.5 g/L Aqueous solution)

o-TOLUIDINE (95-53-4)	
pH	7.5 (8.5 g/L Aqueous solution)

□□ □ □□ □□ □□□□ : □□ □□ □□□□ □□□□.
pH: 7.5 (8.5 g/L Aqueous solution)

o-TOLUIDINE (95-53-4)	
pH	7.5 (8.5 g/L Aqueous solution)

□□□□ □□ □□ □□□□ : □□□□ □□
□□□□ □□□□ : □□□□ □□
□□□□ : □□ □□□□ □□ □□.
□□□□ : □□□□ □□
□□ □□□□ □□ (1□ □□) : □□□□ □□
□□ □□□□ □□ (□□ □□) : □□□□ □□
□□ □□□□ : □□□□ □□

o-TOLUIDINE FOR SYNTHESIS (95-53-4)	
□□(□□□)	3.831 mm ² /s

o-TOLUIDINE (95-53-4)	
□□(□□□)	3.831 mm ² /s

11.2. □□ □□ □□

□□ □□ □□□□
□□ □□□□ □□□□ □□□□ □□ □□ □□ □□ : □□□□ □□□□

□□ 12: □□□ □□□ □□

12.1. □□

□□□□ - □□ : □□□□□□ □□ □□□□.
□□□□ - □□ : □□□□□□ □□ □□□□.
□□ □□□□ □□□□ : □□□□□□□□ □□ □□□□.
□□ □□□□ □□□□ : □□□□□□ □□

o-TOLUIDINE FOR SYNTHESIS

□□□□□□□□

□□ (EU) 2020/878 □□ □□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□ (RID) : □□□□, □□
□□ □□ □□ (ADR) (ADR) : UN 1708 □□□□, □□, 6.1, II, (D/E), □□□ □□
□□ □□ □□ (IMDG) : UN 1708 TOLUIDINES, LIQUID, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
□□ □□ □□ (IATA) : UN 1708 Toluidines, liquid, 6.1, II, ENVIRONMENTALLY HAZARDOUS
□□ □□ □□ (ADN) : UN 1708 □□□□, □□, 6.1, II, □□□ □□
□□ □□ □□ (RID) : UN 1708 □□□□, □□, 6.1, II, □□□ □□

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR) : 6.1
□□ □□ (ADR) : 6.1



IMDG

□□□□□ □□□ □□ (IMDG) : 6.1
□□ □□ (IMDG) : 6.1



IATA

□□□□□ □□□ □□ (IATA) : 6.1
□□ □□ (IATA) : 6.1



ADN

□□□□□ □□□ □□ (ADN) : 6.1
□□ □□ (ADN) : 6.1



RID

□□□□□ □□□ □□ (RID) : 6.1
□□ □□ (RID) : 6.1



14.4. □□□□

□□ □□ (ADR) : II
□□ □□ (IMDG) : II
□□ □□ (IATA) : II
□□ □□ (ADN) : II
□□ □□ (RID) : II

14.5. □□ □□□

□□□ □□ : □□

o-TOLUIDINE FOR SYNTHESIS

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□□□□□ : □□
 EmS-No. (□□) : F-A
 EmS-No. (□□) : S-A
 □□ □□□□ : □□ □□ □□ □□

14.6. □□□□ □□ □□ □□□□

□□ □□ :
 □□ □□ (ADR) : T1
 □□ □□(ADR) : 279
 □□□(ADR) : 100ml
 □□□(ADR) : E4
 □□ □□(ADR) : P001, IBC02
 □□ □□ □□ □□ □□(ADR) : MP15
 □□□ □□ □□ □□□□ □□ (ADR) : T7
 □□□ □□ □□ □□□□ □□ □□ (ADR) : TP2
 □□ □□(ADR) : L4BH
 □□ □□ □□(ADR) : TU15, TE19
 □□ □□□□ □□ : AT
 □□ □□(ADR) : 2
 □□ □□ □□ □□ □□ - □□, □□ □□ □□(ADR) : CV13, CV28
 □□ □□ □□ □□ □□ - □□(ADR) : S9, S19
 □□ □□ □□(Kemler □□) : 60
 Orange plates (□□□□□□) :



□□ □□ □□ (ADR) : D/E
 EAC □□ : •3X

□□ □□ :
 □□ □□ (IMDG) : 279
 □□ □□(IMDG) : 100 ml
 □□□(IMDG) : E4
 □□ □□ (IMDG) : P001
 IBC □□ □□(IMDG) : IBC02
 □□ □□ (IMDG) : T7
 □□ □□ □□ (IMDG) : TP2
 □□ □□ (IMDG) : A
 □□□ □□□□ (IMDG) : Colourless liquids. Toxic if swallowed, by skin contact or by inhalation.
 MFAG-□□ : 153

□□ □□ :
 PCA □□ □□(IATA) : E4
 PCA □□ □□(IATA) : Y641
 PCA □□ □□ □□ □□□(IATA) : 1L
 PCA □□ □□(IATA) : 654
 PCA □□ □□□(IATA) : 5L
 CAO □□ □□(IATA) : 662
 CAO □□ □□□(IATA) : 60L
 □□ □□(IATA) : A113
 ERG □□(IATA) : 6L

□□ □□ □□ :
 □□ □□(ADN) : T1
 □□ □□(ADN) : 279, 802
 □□□(ADN) : 100 ml
 □□□(ADN) : E4
 □□□□(ADN) : T
 □□ □□(ADN) : PP, EP, TOX, A
 □□(ADN) : VE02
 □□ □□/□□□□ □□(ADN) : 2

o-TOLUIDINE FOR SYNTHESIS

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□

- □□(RID) : T1
- □□(RID) : 279
- □□(RID) : 100ml
- (RID) : E4
- □□ (RID) : P001, IBC02
- □□ □□ □□ □□(RID) : MP15
- □□ □ □□ □□□□ □□ (RID) : T7
- □□ □ □□ □□□□ □□ □□ (RID) : TP2
- RID □□□ □□ □□(RID) : L4BH
- RID □□□ □□ □□(RID) : TU15
- □□(RID) : 2
- □□ □□ □□ -□□, □□ □ □□(RID) : CW13, CW28, CW31
- □□□ : CE5
- □□ □□ (RID) : 60

14.7. □□□□□□(IMO) □□ □□ □□ □□

□□□□

□□ 15: □□ □□□□

15.1. □□, □□ □ □□□ □□□□ □□□□ □□ □□ □□/□□

EU □□

REACH □□□ XVII (□□ □□)

EU restriction □□ (REACH Annex XVII)	
□□ □□	□□ □□
3(b)	o-TOLUIDINE FOR SYNTHESIS
3(c)	o-TOLUIDINE FOR SYNTHESIS

REACH □□□ XIV (□□ □□)

REACH □□□ XIV (□□ □□) □ □□□□ □□

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□□ □□□: o-Toluidine

PIC □□ (□□□□□□)

PIC □□□ □□□□ □□ (□□ EU 649/2012)

POP □□ (□□□ □□ □□□□)

POP □□□ □□□□ □□ (□□ EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

□□□□ □□(428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

□□ □□□□ □□ (2019/1148)

□□□ □□□□ □□(□□ □□□□□ □□ □ □□□ □□ □□ EU 2019/1148) □ □□□ □□ □□□□ □□

□□ □□□□ □□ (273/2004)

□□ □□□□ □□□ □□□ □□□□ □□(□□ □ □□□□ □□□ □□ □□□ □□ □□ □□ □□ □□ EC 273/2004)

o-TOLUIDINE FOR SYNTHESIS

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□

□□□

□□□	
□□	□□
RG 15	
RG 15 BIS	
RG 15 TER	

□□

WGK : WGK 3, □□ □□ □□□ (Classification according to AwSV; ID □□ 195).
□□□□ □□ □□ (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).

□□ □□ □□(12. BImSchV) : □□ □□ □□(12. BImSchV) □□ □□ □□

□□□□

SZW-lijst van kankerverwekkende stoffen : o-TOLUIDINE □(□) □□□ □□□□□

SZW-lijst van mutagene stoffen : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Borstvoeding : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□□ □□□□ □□□□□.

□□□

Class for fire hazard : □□ III-1
Store unit : 50 liter
□□ □□ □□ □□ : □□□□ □□□□ □□ □□□; □□□□ □□ □□□□ □□ □□ □□□□ □□□□ □□□□
□□□□ □□ □□ : 18□ □□ □□□□ □□ □□□□□□□□
□□□□ □□□□ □□/□□□□ □□ □□□□ □□ □□□□ □□□□□.
□□ □□□□ □□□□ □□ □□ □□□□ □□ □□□□ □□ □□□□ □□ □□□□ □□□□ □□□□ □□□□

□□□

□□□ □□ □□ : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o L. 2023, item 891)

o-TOLUIDINE FOR SYNTHESIS

□□□□□□□□

□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

15.2. □□ □□ □□ □□ □□

No chemical safety assessment has been carried out

□□ 16: □□ □□ □□ □□

□□ □□ □□ □□:

ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	□□□ □□ □□
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic

o-TOLUIDINE FOR SYNTHESIS

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □ □□□□□:	
PNEC	□□ □□□ □□
PPE	□□ □□□
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	□□□□□□□□
STP	Sewage treatment plant
TF	□□□ □□
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
COV	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	□□ □□ □□□

□H□ □ EUH□ □□:	
□□ □□ 3 (□□)	□□ □□ (□□), □□ 3
□□ □□ 3 (□□)	□□ □□ (□□), □□ 3
□□ □□□□ 1	□□□□ □□□ – □□, □□ 1
□ □□□ 2	□□ □ □□□/□ □□□, □□ 2
□□□ 1B	□□□, □□ 1B
H301	□□□ □□□.
H319	□□ □□ □□□ □□□.
H331	□□□□ □□□.
H350	□□ □□□ □ □□.
H400	□□□□□□ □□ □□□.

□□□□□□□□(SDS), EU

□ □□□ □□ □□□ □□□□ □□ □□□ □□ □□□ □□, □□ □ □□ □□□ □□□ □□□ □□ □□□□ □□ □□□□ □□ □□□ □□ □□□.