

n-BUTYRIC ACID FOR SYNTHESIS

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

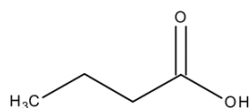
SDS Reference Number: 02388

□□ □□ □□: 4/9/2014 □□ □□ □□: 5/22/2025 □□ □□: 5/13/2016 □□: 1.1

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1.1. □□□□

□□ □□ : □□
 □□ □□ : n-BUTYRIC ACID FOR SYNTHESIS
 IUPAC □□ : Butanoic acid
 EC □□ □□ : 607-135-00-X
 EC □□ : 203-532-3
 CAS □□ : 107-92-6
 □□ □□ : 02388
 □□ □□ : Carboxylic acids
 □□ □□ : C4H8O2
 □□ □□ :



□□ □□ : n-Butanoic acid, Ethylacetic acid, 1-Propane carboxylic acid, Propyl formic acid

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□ : Laboratory chemicals, Manufacture of substances

1.3. □□□□□□□□ □□ □□ □□

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1.4. □□□□□□

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

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

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

□□ □□□/□□ □□□, □□ 1 H314
 □□(H) □□ □ EUH □□ □□: 16□ □□.

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2.2. □□□□□□□ □□ □□□□ □□

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

□□ □□ □□□□(CLP) :



GHS05

□□ □□ (CLP) : □□

n-BUTYRIC ACID FOR SYNTHESIS

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

□□ 8: □□□□ □□□□□□

8.1. □□ □□ □□

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8.2. □□□□

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□□□ □□□ □□:

Ensure good ventilation of the work station.

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Wear recommended personal protective equipment.

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Chemical goggles or safety glasses

Skin protection

□□ □□:

Wear a mask

□□ □□:

Protective gloves

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Wear appropriate mask

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□□ 9: □□□□□ □□

9.1. □□□□ □□□□□ □□□ □□ □□

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: Colourless.

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: Clear liquid.

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: 88.11 g/mol

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: unpleasant.

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: 7 – -5 °C

□□ □□□□ □□□ □□

: 164 °C

□□□

: □□□

□□ □□□

: 2.2 vol %

□□ □□□

: 13.4 vol %

□□□

: 72 °C

□□□□ □□

: 440 °C

□□ □□

: □□□□

pH

: 2 at 25 °C

pH □□□ □□

: 50 %

□□(□□□)

: 1.489 mm²/s

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□□(□□□□) : 1.426 mPa·s at 25 °C
□□□ : □: Miscible with water
□□□: Miscible with Ethanol
□□□: Miscible with Ether
Partition coefficient n-octanol/water (Log Kow) : □□□□
Partition coefficient n-octanol/water (Log Pow) : 0.79
□□□ : 0.57 hPa at 20 °C
50°C□□□□ □□□ : □□□□
□□ : 0.958 g/cm³ at 20 °C
□□ : 0.96
20°C□□□□ □□ □□ □□ : 3.04
□□ □□ : □□□□

9.2. □□□□□□□□

□□□ □□□□□ □□ □□ : 342.05 °C
□□ □□ □□ □□ □□ : 1.3965 – 1.399 (20 °C, 589 nm)

□□ 10: □□□□ □□□□

10.1. □□□

Thermal decomposition generates : Corrosive vapours.

10.2. □□□□□□

Stable under normal conditions.

10.3. □□□□□□□□

No dangerous reactions known under normal conditions of use.

10.4. □□□□□□

None under recommended storage and handling conditions (see section 7).

10.5. □□□□□□

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10.6. □□□□□□□□□□

Thermal decomposition generates : Corrosive vapours.

□□ 11: □□□□ □□□□

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

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□□ □□ (□□) : □□□□ □□
□□ □□ (□□) : □□□□ □□
□□ □□□□ □□ □□□ : Causes severe skin burns.
pH: 2 at 25 °C

n-BUTYRIC ACID (107-92-6)

pH : 2 at 25 °C

□□ □□ □□ □□ □□□ : Assumed to cause serious eye damage
pH: 2 at 25 °C

n-BUTYRIC ACID (107-92-6)

pH : 2 at 25 °C

n-BUTYRIC ACID FOR SYNTHESIS

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□□ □□□□ □□ (□□ □□)	:	□□□□ □□
□□ □□□	:	□□□□ □□

n-BUTYRIC ACID FOR SYNTHESIS (107-92-6)

□□(□□□)	1.489 mm ² /s
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n-BUTYRIC ACID (107-92-6)

□□(□□□)	1.489 mm ² /s
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11.2. □□ □□ □□

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□□ 12: □□□ □□□ □□

12.1. □□

□□□ - □□	:	Before neutralisation, the product may represent a danger to aquatic organisms.
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□□ □□□□ □□□	:	□□□□ □□

12.2. □□□ □□□□

n-BUTYRIC ACID FOR SYNTHESIS (107-92-6)

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n-BUTYRIC ACID (107-92-6)

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12.3. □□ □□□

n-BUTYRIC ACID (107-92-6)

Partition coefficient n-octanol/water (Log Pow)	0.79
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12.4. □□ □□□

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12.5. PBT □ vPvB □□ □□

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12.6. □□□ □□ □□

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12.7. □□ □□ □□

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□□ 13: □□□ □□□□

13.1. □□□ □□□

□□ □□(□□□)	:	Disposal must be done according to official regulations.
□□□ □□□	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.

n-BUTYRIC ACID FOR SYNTHESIS

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

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□□ □□

: Disposal must be done according to official regulations.
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Disposal must be done according to official regulations.
: Do not re-use empty containers.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

14.1. UN □□ □□ ID □□

UN-□□ (ADR) : UN 2820
UN-□□ (IMDG) : UN 2820
UN-□□ (IATA) : UN 2820
UN-□□ (ADN) : UN 2820
UN-□□ (RID) : UN 2820

14.2. UN □□ □□□

□□ □□□ (ADR) : □□□□
□□ □□□ (IMDG) : BUTYRIC ACID
□□ □□□ (IATA) : Butyric acid
□□ □□□ (ADN) : □□□□
□□ □□□ (RID) : □□□□
□□ □□ □□ (ADR) (ADR) : UN 2820 □□□□, 8, III, (E)
□□ □□ □□ (IMDG) : UN 2820 BUTYRIC ACID, 8, III
□□ □□ □□ (IATA) : UN 2820 Butyric acid, 8, III
□□ □□ □□ (ADN) : UN 2820 □□□□, 8, III
□□ □□ □□ (RID) : UN 2820 □□□□, 8, III

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR) : 8
□□ □□ (ADR) : 8
:



IMDG

□□□□□ □□□ □□ (IMDG) : 8
□□ □□ (IMDG) : 8
:



IATA

□□□□□ □□□ □□ (IATA) : 8
□□ □□ (IATA) : 8
:



ADN

□□□□□ □□□ □□ (ADN) : 8
□□ □□ (ADN) : 8

n-BUTYRIC ACID FOR SYNTHESIS

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



RID

□□□□□ □□□ □□ (RID)

: 8

□□ □□ (RID)

: 8



14.4. □□□□

□□ □□ (ADR)

: III

□□ □□(IMDG)

: III

□□ □□ (IATA)

: III

□□ □□(ADN)

: III

□□ □□(RID)

: III

14.5. □□ □□□

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EmS-No. (□□)

: F-A

EmS-No. (□□)

: S-B

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14.6. □□□□ □□ □□ □□□□

□□ □□

□□ □□ (ADR)

: C3

□□□(ADR)

: 51

□□□(ADR)

: E1

□□ □□(ADR)

: P001, IBC03, LP01, R001

□□ □□ □□ □□ □□(ADR)

: MP19

□□□□ □□ □□ □□□□ □□ (ADR)

: T4

□□□□ □□ □□ □□□□ □□ □□ (ADR)

: TP1

□□ □□(ADR)

: L4BN

□□ □□□□ □□

: AT

□□ □□(ADR)

: 3

□□ □□ □□ □□ - □□(ADR)

: V12

□□ □□ □□(Kemler □□)

: 80

Orange plates (□□□□□□)



□□ □□ □□ (ADR)

: E

EAC □□

: •2X

□□ □□

□□ □□(IMDG)

: 5 L

□□□(IMDG)

: E1

□□ □□ (IMDG)

: P001, LP01

IBC □□ □□(IMDG)

: IBC03

□□ □□ (IMDG)

: T4

□□ □□ □□ (IMDG)

: TP1

□□ □□ (IMDG)

: A

□□ □ □□(IMDG)

: SW1, H2

□□(IMDG)

: SGG1, SG36, SG49

n-BUTYRIC ACID FOR SYNTHESIS

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

□□ □□ □□ (IMDG) : Colourless liquid with a penetrating and unpleasant odour. Freezing point: -5°C to -8°C. Miscible with water. Corrosive to most metals. Harmful if swallowed or by inhalation. Corrosive to skin, eyes and mucous membranes.

MFAG-□□ : 153

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PCA □□ □□ (IATA) : E1
PCA □□ □□ (IATA) : Y841
PCA □□ □□ □□ □□ (IATA) : 1L
PCA □□ □□ (IATA) : 852
PCA □□ □□ □□ (IATA) : 5L
CAO □□ □□ (IATA) : 856
CAO □□ □□ □□ (IATA) : 60L
□□ □□ (IATA) : A803
ERG □□ (IATA) : 8L

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□□ □□ (ADN) : C3
□□ □□ (ADN) : 5 L
□□ □□ (ADN) : E1
□□ □□ (ADN) : T
□□ □□ (ADN) : PP, EP
□□ □□ / □□ □□ (ADN) : 0

□□ □□

□□ □□ (RID) : C3
□□ □□ (RID) : 5L
□□ □□ (RID) : E1
□□ □□ (RID) : P001, IBC03, LP01, R001
□□ □□ □□ □□ □□ (RID) : MP19
□□ □□ □□ □□ □□ □□ (RID) : T4
□□ □□ □□ □□ □□ □□ □□ (RID) : TP1
RID □□ □□ □□ (RID) : L4BN
□□ □□ (RID) : 3
□□ □□ □□ □□ - □□ (RID) : W12
□□ □□ □□ : CE8
□□ □□ □□ (RID) : 80

14.7. □□□□□□ (IMO) □□ □□ □□ □□

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□□ 15: □□ □□ □□

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

EU □□

REACH □□ □□ XVII (□□ □□)

EU restriction □□ (REACH Annex XVII)	
□□ □□	□□ □□
3(b)	n-BUTYRIC ACID FOR SYNTHESIS

REACH □□ □□ XIV (□□ □□)

REACH □□ □□ XIV (□□ □□) □□ □□ □□ □□

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□ □□ □□ □□ □□ □□

PIC □□ (□□□□□□)

PIC □□ □□ □□ □□ (□□ EU 649/2012)

n-BUTYRIC ACID FOR SYNTHESIS

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

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)

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□□

WGK : WGK 1, □□ □□ □□ □□ (Classification according to AwSV; ID □□ 41).

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

□□□□

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

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

□□ □□ □□ □□ : □□□□ □□□□ □□ □□□; □□□□ □□ □□□ □□ □□ □□ □□□□ □□□□

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□□□□ □□ □□ : 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)

15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

n-BUTYRIC ACID FOR SYNTHESIS

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

□□ 16: □□ □□□□

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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
PNEC	□□ □□□ □□
PPE	□□ □□□

