

Safety Data Sheet

#34825450 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
3,3',5-Triiodothyroacetic acid	51-24-1	C14H9I3O4	10	13 Aug 2026

SECTION 1

Identification

Product name	3,3',5-Triiodothyroacetic acid
CAS number	51-24-1
Chemical formula	C14H9I3O4
Molecular weight	621.93
SMILES	<chem>C1=CC(=C(C=C1OC2=C(C=C(C=C2I)CC(=O)O)I)I)O</chem>
EC / EINECS number	200-086-1
Recommended use & restrictions	For research use only. Not for human or animal use.
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification



WARNING

CODE HAZARD STATEMENT

H302 + H312 Harmful if swallowed, in contact with skin or if inhaled
+ H332

CODE PRECAUTIONARY STATEMENT

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P302+P352 IF ON SKIN: Wash with soap and water

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing

Other hazards (e.g. PBT / vPvB, not classified)

Does not contain components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).
Does not contain components considered to have endocrine-disrupting properties.
Does not meet PBT or vPvB criteria under REACH Annex XIII.
This product does not contain any known or suspected Endocrine disruptors.

SECTION 3

Composition / information on ingredients

Purity / concentration c. 100% 3,3',5-Triiodothyroacetic acid (CAS: 51-24-1)- H302, H312, H332

Impurities / stabilising additives None

SECTION 4

First-aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. In case of persistent throat irritation or coughing: seek medical attention.
Skin contact	Rinse skin with water. If skin irritation or rash occurs: get medical advice/attention.
Eye contact	Remove contact lenses if present. Rinse eyes with water. If eye irritation persists: get medical advice/attention.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Do not induce vomiting.
Symptoms / effects & medical attention	See Section 11.

SECTION 5

Fire-fighting measures

Suitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Unsuitable extinguishing media	None known
Special hazards	Carbon oxides Hydrogen iodide
Advice for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6

Accidental release measures

Personal precautions & PPE	Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
Containment & clean-up methods	Collect spillage with shovel, broom or the like.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	-15 to -20 °C
Precautions for safe handling	Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs. Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Remove contaminated clothing and laundry thoroughly before re-use. Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
Conditions for safe storage (incompatibilities)	Recommended storage temperature: 2 to 8 °C. Storage Class 13: Non-combustible solids

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	<i>Not applicable</i>
DNEC/PNEC data	<i>Not applicable</i>
Eye / face protection	Safety glasses Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Nitrile gloves Thickness: 0.11mm. Breakthrough time: 480mins.
Respiratory protection	Dust mask (FFP2/FFP3) Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

SECTION 9

Physical & chemical properties

Density (g/mL)	1 g/mL DERIVED FROM: LITERATURE
Flash point	Not applicable
Acidity	Acid DERIVED FROM: LITERATURE
Appearance / physical state	Solid DERIVED FROM: LITERATURE
Colour	White to beige DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	181°C DERIVED FROM: LITERATURE
Boiling point	Not applicable
Solubility (water)	Not applicable
pH	Not applicable
Vapour pressure	Not applicable
Partition coefficient (log Pow)	Not applicable
Auto-ignition / decomposition temp	Not applicable

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Stable under the prescribed storage conditions
Conditions to avoid	Excessive heat.
Incompatible materials	Strong bases (alkalis). Strong oxidising agents
Hazardous decomposition products	See section 5

SECTION 11**Toxicological information**

Acute toxicity (LD50 / LC50)	<i>Not applicable</i>
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Skin corrosion / irritation	<i>Not applicable</i>
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Eye corrosion / irritation	<i>Not applicable</i>
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Respiratory / skin sensitisation	<i>Not applicable</i>
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Carcinogenicity	<i>Not applicable</i>
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Mutagenicity	<i>Not applicable</i>
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Reproductive toxicity	<i>Not applicable</i>
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STOT (single / repeated exposure)	<i>Not applicable</i>
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Aspiration hazard	<i>Not applicable</i>
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Endocrine disruptors	<i>Not applicable</i>
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SECTION 12**Ecological information**

Aquatic toxicity	<i>Not applicable</i>
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Persistence & degradability	<i>Not applicable</i>
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Bioaccumulative potential	<i>Not applicable</i>
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Mobility in soil	<i>Not applicable</i>
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PBT / vPvB assessment	<i>Not applicable</i>
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SECTION 13**Disposal considerations**

Waste treatment / disposal methods	Dispose of in accordance with local/national regulations
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SECTION 14

Transport information

UN number	Not applicable
Proper shipping name	Not applicable
Class	Not applicable
Packing group	Not applicable
Transport category	Not applicable
Tunnel code	Not applicable
Packing instruction (ADR)	Not applicable
Packing instruction (IMDG)	Not applicable
Environmental hazards	Not applicable
Special precautions for user	Not applicable

SECTION 15

Regulatory information

REACH code	Y110
UFI code	Not applicable
ECHA notification	Not applicable
Chemical safety assessment carried out?	Not applicable

SECTION 16

Other information

Revision notes / other information	Hazard classification and labelling according to Regulation (EC) 1272/2008 All eye/face protection should comply with EN ISO 16321-1:2022 Respiratory equipment: Reusable air-purifying respirator (APR) Filter Type: ABEK Standard: EN 14387 National Regulations: -Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances Other regulations, limitations and legal regulations: -Directive 94/33/EC- The protection of young people at work
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