

Safety Data Sheet

#55158774 · 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',5-Dimethoxy-4'-hydroxyacetophenone	2478-38-8	C10H12O4	10	31 Jul 2026

SECTION 1

Identification

Product name	3',5-Dimethoxy-4'-hydroxyacetophenone
CAS number	2478-38-8
Chemical formula	C10H12O4
Molecular weight	196.20
SMILES	<chem>CC(=O)C1=CC(=C(C(=C1)OC)O)OC</chem>
EC / EINECS number	219-610-5
Recommended use & restrictions	For research use only. Not for animal or human 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
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

CODE	PRECAUTIONARY STATEMENT
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
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.
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SECTION 3

Composition / information on ingredients

Purity / concentration	100% 3',5-Dimethoxy-4'-hydroxyacetophenone (CAS 2478-38-8)- H315, H319, H335
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. Continue to rinse for at least 15 minutes and seek medical attention.
Ingestion	Rinse mouth. Get medical advice/attention if you feel unwell.
Symptoms / effects & medical attention	See Section 11.

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide, dry powder or water fog. Water spray
Unsuitable extinguishing media	None known
Special hazards	Carbon oxides Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters	Keep container closed, cool exposed containers with water spray; use protective equipment including respiratory protection. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6

Accidental release measures

Personal precautions & PPE	Isolate area, avoid dust, eliminate ignition sources; use protective equipment (gloves, respirator, chemical clothing)
Environmental precautions	Prevent entry into sewers or public waters; notify authorities if contamination occurs
Containment & clean-up methods	Sweep/spoil into containers, minimize dust; store away from other materials

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Use local exhaust or general ventilation; avoid dust formation; wash hands/clothing after handling
Conditions for safe storage (incompatibilities)	Keep in original container, cool, well-ventilated, away from direct sunlight/heat/ignition sources; light-sensitive; store under inert gas

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
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Flash point	Not applicable
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Acidity	Neutral DERIVED FROM: LITERATURE
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Appearance / physical state	Powder DERIVED FROM: LITERATURE
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Colour	White to brown DERIVED FROM: LITERATURE
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Odour	Not known DERIVED FROM: LITERATURE
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Melting / freezing point	117-128 °C DERIVED FROM: LITERATURE
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Boiling point	- DERIVED FROM: LITERATURE
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Solubility (water)	No data available
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pH	- DERIVED FROM: LITERATURE
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Vapour pressure	- DERIVED FROM: LITERATURE
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Partition coefficient (log Pow)	- DERIVED FROM: LITERATURE
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Auto-ignition / decomposition temp	- DERIVED FROM: LITERATURE
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SECTION 10

Stability & reactivity

Chemical stability / reactivity	Stable under recommended storage conditions
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Conditions to avoid	Heat, sparks, flames, light exposure, incompatible materials
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Incompatible materials	Oxidizing agents, bases, ignition sources, direct sunlight
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Hazardous decomposition products	See section 5
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SECTION 11**Toxicological information**

Acute toxicity (LD50 / LC50)	>10000 mg/kg (oral, rat) (External SDS)
Skin corrosion / irritation	Causes skin irritation
Eye corrosion / irritation	Causes serious eye irritation
Respiratory / skin sensitisation	Not classified
Carcinogenicity	Not classified
Mutagenicity	<i>Not applicable</i>
Reproductive toxicity	<i>Not applicable</i>
STOT (single / repeated exposure)	Single exposure: May cause respiratory irritation
Aspiration hazard	Not classified
Endocrine disruptors	Not classified

SECTION 12**Ecological information**

Aquatic toxicity	<i>Not applicable</i>
Persistence & degradability	<i>Not applicable</i>
Bioaccumulative potential	<i>Not applicable</i>
Mobility in soil	<i>Not applicable</i>
PBT / vPvB assessment	<i>Not applicable</i>

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	Handle in accordance with good industrial hygiene and safety practice

SECTION 15

Regulatory information

REACH code	Y113
UFI code	Not applicable
ECHA notification	Not applicable
Chemical safety assessment carried out?	Not applicable

SECTION 16

Other information

Revision notes / other information	Eye/Face protection standard: EN ISO 16321:1-2022
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