



A23187, 4-Bromo

Sections

\$\tag{9} 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS A23187-4-Bromo vers 8-2024

Page 1 of 9

1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

Product name	<u>A23187, 4-Bromo</u>	Formula	C29H36BrN3O6
Product Code	A4B-001	Molecular weight	602.52 g/mol
<u>CAS</u>	<u>76455-48-6</u>	Mixture?	Substance
<u>ECHA</u>	<u>634-762-6</u> ◆∂	<u>PUBCHEM</u> ◆	
<u>HSDB</u>		<u>RTECS</u>	RTECS
Drug bank		<u>T3DB</u>	
Comptox EPA	A	<u>CHEBI</u>	
Synonyms and other names	4-Bromo-A23187 IUPAC: 6-bromo-5-(methylamino)-2- pyrrol-2-yl)propan-2-yl]-1,7- carboxylic acid	· ·	

Source From: Synthetic Version Date 1 October, 2024

1.2. Intended uses of the Substance and uses advised against

1.2.1. Intended use:		1.2.2. Uses advised against:
Research and development.	Manufacturing of substances.	Not a drug,
Laboratory reagent.	To be used by professionals	Not a food additive
Reference material.	only	Not to be used in humans or animals.

1.3. Contacts

1.3.1. Details of the supplier of the SDS

FERMENTEK ltd

4 Yatziv street, POB 47120

Jerusalem 97800,

Israel

Tel: +972 2 5853953

Fax: +972 2 5853943

eMail: Fermentek@Fermentek.com

Safety@Fermentek.com

Website: Fermentek.com

This company is the manufacturer of the product and the supplier of the safety data sheet

1.3.2. Emergency Telephone number

For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887















A23187, 4-Bromo

Sections

\$\psi\$ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS A23187-4-Bromo vers 8-2024

Page 2 of 9

2. Hazards' identification.

2.1. Classification of the Substance.

To our judgement, hazards of this substance have not been thoroughly investigated

2.1.1. GHS Classification: According to EU Reg. 1272/2008 and US OSHA 1910.1200)

Accute toxicity: Oral	Category 4	H302	♦ Harmful if swallowed
Accute toxicity: Dermal	Category 4	H312	• Harmful in contact with skin
Accute toxicity: Inhalation	Category 4	Н332	◆ Harmful if inhalled
Skin corrosion/irritation	Category 2		
Serious eye damage/eye irritation	Category 2A	H319	Causes serious eye irritation
STOT/SE Respiratory tract irrit.	Category 3		

2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: { ! } Signal word: {Warning}

2.2.2. Hazard Statements

H302+H312+H332	\Omega Harmful if swallowed, in contact with skin or if inhaled
Н315	
Н319	
Н335	◆ May cause respiratory irritation

2.2.3. GHS Precautionary Statements

P203	Obtain, read and follow all safety instructions before use.
P261	Avoid breathing dust or mist.
P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

2.2.4. GHS Response Phrases:

P301+P317, P330	IF swallowed: Get medical help. Rinse mouth
P302+P352, P317, ,	IF ON SKIN: wash with plenty of water. Get emergency medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.













A23187, 4-Bromo

Sections

\$\frac{1}{7}\$ \frac{1}{2}\$ \frac{2}{3}\$ \frac{4}{5}\$ \frac{6}{6}\$ \frac{7}{8}\$ \frac{9}{9}\$ \frac{10}{11}\$ \frac{11}{12}\$ \frac{13}{13}\$ \frac{14}{15}\$ \frac{16}{16}\$

SDS A23187-4-Bromo vers 8-2024

Page 3 of 9

P304+P340,	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<i>P332+P317</i> ,	If skin irritation occurs: Get medical help.
P305+P351+P338, P337+P317	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help.
P319	Get medical help if you feel unwell.

3. Composition/information on ingredients

Substance	
Substance Name:	A23187, 4-Bromo
Concentration	<=100%
CAS Registry#:	76455-48-6
EC#:	634-762-6
Molecular Formula:	C29H36BrN3O6
Molecular Weight:	602.52 g/mol
Classification	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3;H302, H332, H312, H315,H319, H335
Mixture?	Substance

4. First Aid Measures.

4.1. Description of First Aid Measures.

General advice:	First-aiders need to protect themselves. If medical attention is required, show this safety data sheet to the doctor in attendance.
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.

4.2. Most important symptoms and effects, both acute and delayed

General symptoms See section 11

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians No data available

5. Fire-fighting measures.

5.1. Extinguishing media.















A23187, 4-Bromo

Sections

\$\tag{9} 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS A23187-4-Bromo vers 8-2024

Page 4 of 9

2-2		
Unsuitable extinguishing media	None known	
5.2. Other information		
Hazardous combustion products	Carbon oxides, Nitrogene oxides, Bromine vapours C29H36BrN3O6	
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.	
6. Accidental release	measures	
6.1. Personal precautions, protective equipment, and emergency procedures		
Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.	
6.2. Environmental precau	utions	
Fnvironmental precautions	Prevent further leakage or spillage if safe to do so Prevent product	

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product
	from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover the powder spill with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up:	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g., sand, earth, diatomaceous earth, and vermiculite). Cover the powder spill with a plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place.
	Keep out of the reach of children.
	Store at -20 °C.















A23187, 4-Bromo

Sections

\$\tag{7} 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS A23187-4-Bromo vers 8-2024

Page 5 of 9

Suitable packaging	Must only be kept in original packaging.
Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

Attiention:

Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances. Therefore, the employer/user should perform a risk assessment prior to the use of this product.

The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

All recommendations included in this document are advisory in nature

8.1. Control parameters

Control parameters	Components with workplace control parameters
8.2. Exposure controls	
Appropriate engineering controls	Showers, Eyewash stations, Ventilation systems Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Use fume-hood for routine work.

8.3. Personal protective equipment

[PPE=Personal Protection Equipment]		
PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).	
PPE: Hand Protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands	
PPE: Eye Protection:	Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)	













A23187, 4-Bromo

Sections

\$\psi\$ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS A23187-4-Bromo vers 8-2024

Page 6 of 9

PPE: Skin and Body Protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

9. Physical and chemical properties

The information given here does not purport specification of warranty of any kind. It is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification.

9.1. Physical/chemical properties

Physical State at room temperature Solid

Appearance White powder

No further safety relevant data are available

10. Stability and reactivity

	. •
Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Sunlight.
Incompatible materials	Strong reducers and exidizers
Possibility of hazardous reactions	None under normal processing
Hazardous combustion products	See section 5

11. Toxicological information

11.1. Information on toxicological effects

To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet.

11.1.1. Acute Toxicity

Acute toxicity:	> Estimate ⟨⟨ Oral, Mouse, LD50>200 mg/kg
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No data available

11.1.2. Chronic toxicity

Chronic toxicity No data available















A23187, 4-Bromo

Sections

\$\tag{7} 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS A23187-4-Bromo vers 8-2024

Page 7 of 9

11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	No data available
Carcinogenicity:	Not classified by IARC
Reproductive toxicity / Teratogenicity:	No data available

11.2. Additional information

RTECS number	RTECS
General symptoms	Sense Organs and Special Senses (Eye) - ptosis Behavioral - muscle weakness Lungs, Thorax, or Respiration - dyspnea

12. Ecological Information

Eco-Toxicity	No data available
Other adverse effects	No data available

13. Disposal Considerations

13.1. Waste treatment methods

Waste Disposal	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

14. Transport information

14.1. UN Number, Proper Shipping Name, Transport Hazard Class, packing group

	IATA	IMDG	ADR/RID	US/DOT
UN Number, Proper shipment name	Not classified (A23187, 4-Bromo)			
Transport hazard Class, Packing group	Not regulated Not hazardous for transport			
Comments		Not marine polutant		

15. Regulatory information

15.1. Safety, health, and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)
EU ECHA Status	This product is registered with the EU ECHA, Number 634-762-6
	REACH: Neither Registered nor PreRegistered.
	ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed















A23187, 4-Bromo

Sections

\$\tag{7} 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS A23187-4-Bromo vers 8-2024

Page 8 of 9

16. Other information

16.1. Version information

Version date:8-2024

16.2. Department issuing this SDS

Quality systems and regulatory affairs

16.3. General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information given here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless explicitly specified in the text.

16.4. The users'/employers' responsibility:

Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances.

Therefore, the employer/user should perform a risk assessment by prior to the use of this product. The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

All recommendations included in this document are advisory in nature.

16.5. No @copyright



Fermentek does not claim © copyright on this document.

Fermentek believes that no one can claim copyright on an SDS. This sort of document is but a compendium of common knowledge and published facts.

Fermentek explicitly releases this document into the public domain.

16.6. End of SDS















A23187, 4-Bromo

Sections

\$\frac{1}{1}\$ 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS A23187-4-Bromo vers 8-2024

Page 9 of 9

16.7. Appendix A: Abbreviations and acronyms:

10.7. Appenai.	x A . Abbreviations and acronyms.
₽	This symbol means, the text looking like a hyperlink, is a clickable link indeed. Of course, these are only active on glass screens, not on paper.
From /Synthetic /Semisynthetic	"From" means the compound was extracted from biomass, whether algal, fungal, microbial or plant material
	"Synthetic" means this compound has been manufactured by chemical conversion of another compound.
	Often, certain product is made by the method of microbial fermentation, purified, and then chemically
	converted into another compound. It may be called "semisynthetic".
Mixture/Substance/ Complex	Substance means a single compound.,
	Mixture means there are two or more pure substances mixed purposely.
	Complex is a mixture of two or more substances which naturally occur together and are sold
	unseparated
Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service
ChEBI	Chemical Entities of Biological Interest
CNS	Central nervous system
Comptox	CompTox Chemicals Dashboard Resource Hub (EPA)
DOT:	US Department of Transportation
ЕСНА	European Chemicals Agency
EINECS:	European Inventory of Existing Commercial Chemical Substances
EPA	United States Environmental Protection Agency
Eye Dam.:	Serious eye damage/eye irritation
HSDB	Hazardous Substances Data Bank
HMIS:	Hazardous Materials Identification System (USA)
IATA:	International Air Transport Association
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal concentration, Median
LD50:	Lethal dose, Median
LDL0	Letal dose, leatst published
NDG	Not dangerous goods (for transport)
NFPA:	National Fire Protection Association USA
NIOSH:	National Institute for Occupational Safety
NOAEL	No-Observed-Adverse-Effects-Level. Highest dose which yelded no results at toxisity test
OSHA:	Occupational Safety & Health
PBT:	Persistent, Bioaccumulative, and Toxic
PEL:	Permissible Exposure Limit
PubChem	An open chemistry database at the National Institutes of Health (NIH). "
REL:	Recommended Exposure Limit
Repr.:	Reproductive toxicity, incl. hazards to reproductive systems, and pregnancy and the offspring.
RTECS:	Registry of Toxic Effects of Chemical Substances. Not free.
Skin Irrit:	Skin corrosion/irritation
STOT/SE	Specific target organ toxicity/Single exposure
STOT/RE	Specific target organ toxicity/Repeated exposure
T3DB	Toxin and Toxin Target Database
TDL0	Toxic dose, least published









