

Spreading sunshine globally



VITAMIN
D
FOOD | PHARMA | FEED



Fermenta Biotech Limited

ABOUT FERMENTA BIOTECH LIMITED (FBL):

FBL is one of the leading manufacturers of Vitamin D3 globally, headquartered in Thane, India. With over five decades of experience, its presence spans across 50 countries with a worldwide distribution network for a variety of applications such as pharmaceuticals, dietary and nutritional supplements, food, animal nutrition, veterinary, and rodenticides.

FBL's manufacturing facilities in Kullu and Dahej are certificated by global accreditations and its world class R&D center is located at Thane. Apart from Vitamin D3, FBL also possesses expertise in integrated biotechnology solutions such as enzymes for antibiotic synthesis and other niche APIs.

For more information about the company and its businesses, please visit our website www.fermentabiotech.com

R&D Lab, Thane



Dahej Facility



Kullu Facility



Head Office, Thane



VITAMIN

D



FOOD | PHARMA | FEED

CERTIFICATIONS & ACCREDITATIONS*

CEP-EDQM

WHO-GMP

US FDA



**ISO
14001:2015**

**ISO
9001:2015**

**OHSAS
18001:2007**

*Product-specific and Site-specific

Our Associations:



National Association for the Blind (NAB)



A Public Awareness Initiative:





Pharmaceuticals



Dietary & Nutritional Supplements



Animal Nutrition

Wide Spectrum of Applications



Food



Veterinary



Rodenticides

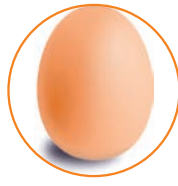
Sources of **VITAMIN D**



SUNLIGHT



FORTIFIED MILK



EGGS



MUSHROOMS



SALMON & MACKEREL



FORTIFIED BEVERAGES

Factors affecting **VITAMIN D** absorption



AGE



LATITUDE



SEASON



CLOUD COVER



TIME OF DAY



SKIN PIGMENTATION

Health Benefits of **VITAMIN D**



Immunity



General Wellbeing



Bone & Joint Health



Heart Health



Mental Health

Disclaimer: All trademarks are the property of FBL. All information given herewith is for promotional use only and should not be construed as a medical claim. All images are for representation purposes only.



PRODUCT INFORMATION

VITADEE™ 100 CWD / 500 CWD

Cholecalciferol Concentrate (Powder Form)

DS (Dispersible Solution) / S (Soluble)



Concentration: 100,000 IU/g, 500,000 IU/g

Product Identification:

Chemical Name:

(3β,5Z,7E)-9,10-secocholesta-5,7,10(19)-trien-3-ol

Mol Formula: C₂₇H₄₄O

Mol Weight: 384.64 g/mol

CAS No.: 67-97-0

Description: White or yellowish white, small particles.

Specification: In-House

Assay: NLT 100.0%

Certifications: WHO-GMP, Kosher, Halal, HACCP, Vegetarian Certificate.

Packaging: Packed under inert gas in 1Kg & 5Kg Aluminium Bags.

Shelf Life: Proposed retest period of 30 months from the date of manufacture.

Storage: VITADEE™ CWD is sensitive to air, light and humidity. The product may be stored for 30 months from the date of manufacture in the unopened original container and at a temperature below 15°C. For optimum stability, storage at 5° ± 3°C is recommended. Keep container tightly closed. Once opened, use contents quickly.

DS: Tableting application in pharmaceuticals, multi-vitamin premixes for food and nutraceutical industry.

S: For fortifying liquid preparations (in beverage industry).

Applications: For fortifying powder and liquid products such as baby food, milk powders, multi-vitamin premixes and tableting application. Catering to the needs of food, dietary & nutraceutical supplements.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.



***Note:** Please refer the Material Safety Data Sheet before handling the product.



Manufactured by :

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com



GMP Registered

PRODUCT INFORMATION



CHOLECALCIFEROL

(Crystalline Vitamin D3)



Synonyms: Activated 7-Dehydrocholesterol.

Concentration: 40,000,000 IU/g

Product Identification:

Chemical Name:

(3 β ,5Z,7E)-9,10-secocholesta-5,7,10(19)-trien-3-ol

Mol Formula: C₂₇H₄₄O

Mol Weight: 384.64 g/mol

CAS No.: 67-97-0

Description: White or almost white crystals. Freely soluble in Ethanol (96%).

Specifications: USP, FCC, Ph. Eur. and IP.

Assay: 97 - 103 % as per USP/IP/FCC

97 - 102 % as per Ph. Eur.

Certifications: Certificate of Suitability by EDQM, Kosher, Halal, HACCP, ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007, WHO-GMP, Vegetarian Certificate, BRC, FSSC 22000, FSMA.

Regulatory Submissions: CEP, US DMF, Health Canada DMF, EFSA Dossier.

Packaging:

Aluminium Bottle: Under inert gas in 250g, and 1Kg

LDPE Bags: Under vacuum in 10g, 100g, 4Kg and 5Kg.

Shelf Life: 36 months in Aluminium bottle and in LDPE bag.

Storage: Store in an air tight container, under inert gas, protected from light, at a temperature of 5° ± 3°C . The contents of an opened container are to be used immediately.

Applications: Pharmaceutical, food, veterinary & feed industries.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.



CERTIFICATE OF SUITABILITY BY EDQM & EIR FROM USFDA

***Note:** Please refer the Material Safety Data Sheet before handling the product.



Manufactured by :

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com

PRODUCT INFORMATION



CHOLECALCIFEROL SOLUTION

Cholecalciferol Concentrate (Oily Form)

Concentration: 1 MIU/g, 2 MIU/g & 4 MIU/g

Product Identification:

Chemical Name:

(3β,5Z,7E)-9,10-secocholesta-5,7,10(19)-trien-3-ol

Mol Formula: C₂₇H₄₄O

Mol Weight: 384.64 g/mol

CAS No.: 67-97-0

Description: Colourless to yellow coloured oily liquid.

Specification: USP and Ph. Eur.

Assay: 90 – 110 % of the labelled contents.

Certifications: Kosher, Halal, HACCP, ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007, WHO-GMP, Vegetarian Certificate, BRC, FSSC 22000, FSMA.

Packing: Packed under inert gas in 1Kg and 10Kg Aluminium bottles.

Shelf Life: Retest period of 24/36 months* from the date of manufacture.

Storage: Store in air tight, well fitted container, protected from light. The contents of an open container are to be used as soon as possible; any unused part is to be protected by an atmosphere of inert gas.

Applications: Pharmaceutical, food, dietary & nutraceutical supplement industry.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.



*Variant specific

*Note: Please refer the Material Safety Data Sheet before handling the product.



Manufactured by :

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com

PRODUCT INFORMATION



**VITAMIN D3 500
FEED GRADE POWDER**



Concentration: 500,000 IU/g

Product Identification:

Chemical Name:

(3β,5Z,7E)-9,10-secocholesta-5,7,10(19)-trien-3-ol

Mol Formula: C₂₇H₄₄O

Mol Weight: 384.64 g/mol

CAS No.: 67-97-0

Description: White to off - white free flowing powder.

Assay: Minimum 0.5 MIU/g of Cholecalciferol.

Certifications: FAMI QS, Kosher, HACCP, ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007.

Packing: Packed in 25 Kg double LDPE bags placed in a Carton box.

Shelf Life: Retest period of 24 months from the date of manufacture.

Storage: Store in cool and dry place below 25°C. Protect from light.

Application: Animal feed supplement.

Stability: Stability of the product is assured when in its original unopened packaging and stored at room temperature. The stability of Vitamin D3 in a premix may vary depending upon the composition of the feed and the

prevailing operating conditions at the time of mixture and usage. Suitability of the product to be ascertained prior to commercial usage. Feeds that contain Vitamin D3 are advised to be consumed soon after mixing to ensure maximum supplementation value of the feed.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.



***Note:** Please refer the Material Safety Data Sheet before handling the product.



Manufactured by :

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com

PRODUCT INFORMATION

VITAMIN D3 RESIN IN OIL

Concentration: 1 MIU/g, 2 MIU/g, 4 MIU/g, 5 MIU/g, 10 MIU/g & 15 MIU/g

Product Identification:

Chemical Name:

(3 β ,5Z,7E)-9,10-seccholesta-5,7,10(19)-trien-3-ol

Mol Formula: C₂₇H₄₄O

Mol Weight: 384.64 g/mol

CAS No.: 67-97-0

Description: Clear to almost clear, pale brown to brown viscous solution.

Assay: 90 – 110% of the labelled contents.

Certifications: FAMI QS, Kosher, Halal, HACCP, ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007.

Packing: 1Kg and 10Kg Aluminium bottles. Packed under inert gas.

Shelf Life: Retest period of 24 months from the date of manufacture.

Storage: Store in cool, air tight, well fitted container, protected from light. The contents of an open container are to be used as soon as possible; any unused part is to be protected by an atmosphere of inert gas.

Application: Animal feed supplement.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.



*Note: Please refer the Material Safety Data Sheet before handling the product.



Manufactured by:

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com

PRODUCT INFORMATION



VITADEE™ - VEG 100 CWD

**Ergocalciferol Concentrate (Powder Form)
DS (Dispersible Solution)**



Concentration: 100,000 IU/g

Product Identification:

Chemical Name:

(3β,5Z,7E,22E)-9,10-secoergosta-5,7,10(19),22-tetraen-3-ol

Mol Formula: C₂₈H₄₄O

Mol Weight: 396.65 g/mol

CAS No.: 50-14-6

Description: White or yellowish white, small particles.

Specification: In-House

Assay: NLT 100.0%

Certifications: WHO-GMP, HACCP, NSF, Vegan.

Packaging: Packed under inert gas in 1kg and 5kg Aluminium Bags.

Shelf Life: Retest period of 24 months from the date of manufacture.

Storage: VITADEE™ CWD is sensitive to air, light and humidity. The product may be stored for 24 months from the date of manufacture in the unopened original container and at a temperature below 15°C. For optimum stability, storage at 5° ± 3 °C is recommended. Keep container tightly closed. Once opened, use contents quickly.

Applications: For fortifying powder and liquid products such as baby food, milk powders, multi-vitamin premixes and tableting application. Catering to the needs of food, dietary & nutraceutical supplements and pharmaceutical industry.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.



***Note:** Please refer the Material Safety Data Sheet before handling the product.



Manufactured by :

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com



PRODUCT INFORMATION

ERGOCALCIFEROL ORAL SOLUTION

(Vitamin D2 in Edible oil)



Concentration: 1 MIU/g & 2 MIU/g

Product Identification:

Chemical Name:

(3 β ,5Z,7E,22E)-9,10-secoergosta-5,7,10(19),22-tetraen-3-ol

Mol Formula: C₂₈H₄₄O

Mol Weight: 396.65 g/mol

CAS No.: 50-14-6

Description: Clear, yellow coloured oily liquid.

Assay: 100.0 – 120.0 % of the labelled contents.

Certifications: Vegan Registration, WHO-GMP, BRC, FSSC 22000, FSMA.

Packing: 1Kg and 10Kg Aluminium bottles.

Shelf Life: Retest period of 24 months from the date of manufacture.

Storage: Protect from light and store below 25°C.

Applications: Pharmaceutical & food industry and dietary & nutraceutical supplements.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.



***Note:** Please refer the Material Safety Data Sheet before handling the product.



Manufactured by :

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com



PRODUCT INFORMATION



PRODUCT SPECIFICATIONS:

VITAMIN A PALMITATE

Concentration (Vitamin A)	NLT 60,000 IU/ml
Chemical Name	all-trans-3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohexene-1-yl)-2,4,6,8-nonatetraene-1-yl palmitate
Mol. Formula	C ₃₆ H ₆₀ O ₂
Mol. Weight	524.87 g/mol
CAS No.	79-81-2
EINECS No.	201-228-5

VITAMIN D2

Concentration	NLT 12,500 IU/ml
Chemical Name	9,10-secoergosta 5,7,10(19), 22-tetraen-3-ol, (3β,5Z,7E,22E)-
Mol. Formula	C ₂₈ H ₄₄ O
Mol. Weight	396.65 g/mol
CAS No.	50-14-6
EINECS No.	200-014-9

Description: Pale yellow, slightly viscous liquid

Antioxidant: Butylated Hydroxy Toluene (BHT)

Assay: Vitamin A Palmitate – NLT 60,000 IU/ml

Vitamin D2 - NLT 12,500 IU/ml

Packing : Packed under inert gas in 250g, 1 kg and 10 kg Aluminium or HDPE bottles

Shelf life : Retest period of 12 months from the date of manufacture.

Storage : Store in air tight, well fitted container, protected from light. The contents of an open container are to be used as soon as possible; any unused part is to be protected by an atmosphere of inert gas.

Applications : Food and Beverage fortification, Milk fortification, Dietary & Nutraceutical Supplement Industry.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.

***Note:** Please refer the Material Safety Data Sheet before handling the product.



Manufactured by :

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com

PRODUCT INFORMATION



VITAMIN A PALMITATE	
Concentration	1.01 – 1.11 MIU/g
Chemical Name	all-trans-3,7-dimethyl-9-(2,6,6 trimethyl-1-cyclohexene-1-yl) 2,4,6,8-nonatetraene-1-yl palmitate
Mol. Formula	C ₃₆ H ₆₀ O ₂
Mol. Weight	524.87 g/mol
CAS No.	79-81-2

VITAMIN D3	
Concentration	80,640 - 88,700 IU/g
Chemical Name	(3β, 5Z, 7E)-9, 10-secocholesta-5, 7, 10 (19)-trien-3-ol
Mol. Formula	C ₂₇ H ₄₄ O
Mol. Weight	384.64 g/mol
CAS No.	67-97-0

Description: Pale yellow, slightly viscous liquid

Antioxidant: DL- α-tocopherol

Assay: Vitamin A Palmitate: 1.01 - 1.11 MIU/g

Vitamin D3 : 80,640 - 88,700 IU/g

Packing: Packed under inert gas in 250g, 1 kg and 10 kg Aluminium or HDPE bottles.

Shelf life: Retest period of 12 months from the date of manufacture.

Storage: Store in airtight, well fitted container, protected from light. The contents of an open container are to be used as soon as possible; any unused part is to be protected by an atmosphere of inert gas.

Applications: Food & oil fortification.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.

***Note:** Please refer the Material Safety Data Sheet before handling the product.



Manufactured by :

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com

PRODUCT INFORMATION



VITAMIN A PALMITATE	
Concentration	NLT 60,000 IU/ml
Chemical Name	all-trans-3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohexene-1-yl) 2,4,6,8-nonatetraene-1-yl palmitate
Mol. Formula	C ₃₆ H ₆₀ O ₂
Mol. Weight	524.87 g/mol
CAS No.	79-81-2

VITAMIN D3	
Concentration	NLT 12,500 IU/ml
Chemical Name	(3β, 5Z, 7E)-9, 10-secocholesta-5, 7, 10(19)-trien-3-ol
Mol. Formula	C ₂₇ H ₄₄ O
Mol. Weight	384.64 g/mol
CAS No.	67-97-0

Description: Pale yellow, slightly viscous liquid

Antioxidant: Butylated Hydroxy Toluene (BHT)

Assay: Vitamin A Palmitate : NLT 60,000 IU/ml

Vitamin D3 : NLT 12,500 IU/ml

Packing: Packed under inert gas in 250g, 1 kg and 10 kg Aluminium or HDPE bottles.

Shelf life: Retest period of 12 months from the date of manufacture.

Storage: Store in air tight, well fitted container, protected from light. The contents of an open container are to be used as soon as possible; any unused part is to be protected by an atmosphere of inert gas.

Applications: Vitamin AD3 emulsion in edible oil for food and beverage fortification, milk fortification, dietary & nutraceutical supplement industry.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.

***Note:** Please refer the Material Safety Data Sheet before handling the product.



Manufactured by :

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com

PRODUCT INFORMATION



VITAMIN A PALMITATE	
Concentration	1.01 – 1.11 MIU/g
Chemical Name	all-trans-3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohexene-1-yl) 2,4,6,8-nonatetraene-1-yl palmitate
Mol. Formula	C ₃₆ H ₆₀ O ₂
Mol. Weight	524.87 g/mol
CAS No.	79-81-2

VITAMIN D3	
Concentration	80,640 - 88,700 IU/g
Chemical Name	(3β, 5Z, 7E)-9, 10-secocholesta-5, 7, 10 (19)-trien-3-ol
Mol. Formula	C ₂₇ H ₄₄ O
Mol. Weight	384.64 g/mol
CAS No.	67-97-0

Description: Pale yellow, slightly viscous liquid

Antioxidant: DL- α-tocopherol

Assay: Vitamin A Palmitate: 1.01 - 1.11 MIU/g

Vitamin D3 : 80,640 - 88,700 IU/g

Packing: Packed under inert gas in 250g, 1 kg and 10 kg Aluminium or HDPE bottles.

Shelf life: Retest period of 12 months from the date of manufacture.

Storage: Store in airtight, well fitted container, protected from light. The contents of an open container are to be used as soon as possible; any unused part is to be protected by an atmosphere of inert gas.

Applications: Food & oil fortification.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.

***Note:** Please refer the Material Safety Data Sheet before handling the product.



Manufactured by :

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com

PRODUCT INFORMATION



VITAMIN A PALMITATE	
Concentration	NLT 60,000 IU/ml
Chemical Name	all-trans-3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohexene-1-yl) 2,4,6,8-nonatetraene-1-yl palmitate
Mol. Formula	C ₃₆ H ₆₀ O ₂
Mol. Weight	524.87 g/mol
CAS No.	79-81-2

VITAMIN D3	
Concentration	NLT 12,500 IU/ml
Chemical Name	(3β, 5Z, 7E)-9, 10-secocholesta-5, 7, 10(19)-trien-3-ol
Mol. Formula	C ₂₇ H ₄₄ O
Mol. Weight	384.64 g/mol
CAS No.	67-97-0

Description: Pale yellow, slightly viscous liquid

Antioxidant: Butylated Hydroxy Toluene (BHT)

Assay: Vitamin A Palmitate : NLT 60,000 IU/ml

Vitamin D3 : NLT 12,500 IU/ml

Packing: Packed under inert gas in 250g, 1 kg and 10 kg Aluminium or HDPE bottles.

Shelf life: Retest period of 12 months from the date of manufacture.

Storage: Store in air tight, well fitted container, protected from light. The contents of an open container are to be used as soon as possible; any unused part is to be protected by an atmosphere of inert gas.

Applications: Vitamin AD3 emulsion in edible oil for food and beverage fortification, milk fortification, dietary & nutraceutical supplement industry.

Disclaimer: The aforementioned information is based on our current knowledge and experience. Although we are satisfied that it meets our specifications, we request users to use their discretion and carry out any necessary tests/precautions prior to usage of the product in any formulation.

Fermenta does not carry any liability in the final usage of the product and maintains that users should observe compliance with all applicable laws and regulations while using the product.

***Note:** Please refer the Material Safety Data Sheet before handling the product.



Manufactured by :

Fermenta Biotech Limited

A - 1501, Thane One, 'DIL' Complex, Ghodbunder Road, Majiwada, Thane (West) - 400610, Maharashtra, India. Tel: +91 22 6798 0800 / 888 • Fax: +91 22 6798 0899
E mail: info@fermentabiotech.com • Website: www.fermentabiotech.com