

Fax No 00302104179316

KALOGEROPOULOS CHEMICALS SA

GOUNARI 35

18531 PIRAEUS

Greece

2019-02-22

ENT/OQA

Hr. Dr. Florian Wildschek

florian.wildschek@basf.com

Certificate No 1352

Page 1 of 3

**Inspection Certificate 3.1 according to EN 10204**

Vitamin A-Palmitate Care

(1.0 Tocopherol)

5KG Plastic jerricans

Purchase Order/Customer Product#

PO# 1519

Material	50131647
Order	3015410965 000020
Delivery	3191457544 000010
Lot	07993775L0
Lot/Qty	5.000 KG
Total	5.000 KG
Transport	00000000000850850319

Manufacturing Location: DE, 67056 Ludwigshafen, Carl-Bosch-Str. 38

Test Parameter	Requirements	UoM	Results
Appearance	yellow viscous oil, partly crystalline when cooled		conforms
Identification Vit.A-Palm. (TLC)	must conform		conforms
Assay Vitamin A (photometr.)	Min.: 1.00 Max.: 1.10	Mio.I.U./g	1.06
Peroxide value	Max.: 10	meq/kg	<1
Acid Value	Max.: 2.0	mg KOH/g	0.2
Retinol	Max.: 1.0	g/100g	<1.0
Related substances: Absorbance Ratio A 300/ A 326nm	Max.: 0.60		0.58
Related substances: Absorbance Ratio A 350/ A 326 nm	Max.: 0.54		0.53
Related substances: Absorbance Ratio A 370/ A 326nm	Max.: 0.14		0.13

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

Fax No 00302104179316

KALOGEROPOULOS CHEMICALS SA

GOUNARI 35

18531 PIRAEUS

Greece

2019-02-22

ENT/OQA

Hr. Dr. Florian Wildschek

florian.wildschek@basf.com

Certificate No 1352

Page 2 of 3

### Inspection Certificate 3.1 according to EN 10204

Vitamin A-Palmitate Care

(1.0 Tocopherol)

5KG Plastic jerricans

Purchase Order/Customer Product#

PO# 1519

Material

50131647

Order

3015410965 000020

Delivery

3191457544 000010

Lot

07993775L0

Lot/Qty

5.000 KG

Total

5.000 KG

Transport

00000000000850850319

Manufacturing Location: DE, 67056 Ludwigshafen, Carl-Bosch-Str. 38

Test Parameter	Requirements	UoM	Results
Heavy metals *	must conform (max.10mg/kg)		conforms
Nickel*	must conform (max.2mg/kg)		conforms
Residual solvent * methanol	must conform (max.3000mg/kg)		conforms
Residual solvents * (heptane, methyl acetat and isopropanol)	must conform (max.5000mg/kg)		conforms

\* test is verified on random samples

The product is stabilized by tocopherol.

The product meets the specifications of following monographs:

"Vitamin A Concentrate (Oily Form), synthetic" of European Pharmacopoeia 9th Edition

"Vitamin A" of USP39/NF34

Manufacturer: BASF SE

Carl-Bosch-Str.38

67056 Ludwigshafen

Germany

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

Fax No 00302104179316

KALOGEROPOULOS CHEMICALS SA

GOUNARI 35

18531 PIRAEUS

Greece

2019-02-22

ENT/OQA

Hr. Dr. Florian Wildschek

florian.wildschek@basf.com

Certificate No 1352

Page 3 of 3

### Inspection Certificate 3.1 according to EN 10204

Vitamin A-Palmitate Care

(1.0 Tocopherol)

5KG Plastic jerricans

Purchase Order/Customer Product#

PO# 1519

Material

50131647

Order

3015410965 000020

Delivery

3191457544 000010

Lot

07993775L0

Lot/Qty

5.000 KG

Total

5.000 KG

Transport

00000000000850850319

Manufacturing Location: DE, 67056 Ludwigshafen, Carl-Bosch-Str. 38

QC-Reference-No.		18C09903
Production date	(YYYY-MM-DD)	2018-09-11
Release date	(YYYY-MM-DD)	2018-10-09
Best before/Retest date	(YYYY-MM-DD)	2021-09-10

BASF SE

Quality Assurance - Release

sig. Hr. Frühbeis

QA-Representative

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.