



---

**Name:** R\_INQUIRY / SUBSTANCE : Fatty acids, C8-18 and C18-unsatd. / Fatty acids, C8-18 and C18-unsatd. / 67701-05-7 Thu, 17 May 2018 09:07:50 +0000

---

**Legal entity owner:** EcoMundo for twin rivers / Issy-les-Moulineaux / France

---

**Printing date:** 2018-05-17T09:08:11.831Z

---

# Table of Contents

b3cf2e43-797a-4d89-8257-0c8e5fce5910/b3cf2e43-797a-4d89-8257-0c8e5fce5910 .....	1
EcoMundo for twin rivers .....	2
Fatty acids, C8-18 and C18-unsatd. ....	3
1 General information .....	3
1.1 Identification .....	3
Identification .....	3
1.2 Composition .....	5
Composition.001 .....	5
1.4 Analytical information .....	8
Analytical information.001 .....	8
14 Information requirements .....	9
Inquiry .....	9
Inquiry.001 .....	9
References .....	10
decanoic acid .....	10
Fatty acids, C8-18 and C18-unsatd. ....	12
Garçon, Pierre; EcoMundo .....	14
lauric acid .....	15
myristic acid .....	17
octanoic acid .....	19
palmitic acid .....	21
stearic acid .....	23

---

# DOSSIER:

---

**UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.235Z

**Remarks:**

---

## Dossier header

---

## Dossier submission type

---

**Name**

REACH Inquiry

**Version**

reach 3.0

## Dossier subject

---

**Dossier subject**

[Fatty acids, C8-18 and C18-unsatd. / Fatty acids, C8-18 and C18-unsatd. / 67701-05-7](#)

**Submitting legal entity**

[EcoMundo for twin rivers / Issy-les-Moulineaux / France](#)

**Dossier creation date/time**

Thu May 17 09:07:50 GMT 2018

**Used in category**

false

# LEGAL\_ENTITY: EcoMundo for twin rivers

---

**UUID:** ECHA-3df66680-b937-4ffb-8b8c-d2cbd4c23c47

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.247Z

**Remarks:**

---

## General information

---

**Legal entity name**

EcoMundo for twin rivers

**Legal entity type**

company

## Contact information

---

### Contact address

---

**Address 1**

215 Rue Jean Jacques Rousseau

**Postal code**

92130

**Town**

Issy-les-Moulineaux

**Country**

France

**Phone**

0033183642054

**E-mail**

or@ecomundo.eu

# Fatty acids, C8-18 and C18-unsatd.

## General information

### Identification

**SUBSTANCE: Fatty acids, C8-18 and C18-unsatd.**

---

**UUID:** 32ed4ab4-00af-4f24-a33f-a3dae6ba7a9a

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.276Z

**Remarks:**

---

#### Substance name

Fatty acids, C8-18 and C18-unsatd.

#### Legal entity

[EcoMundo for twin rivers / Issy-les-Moulineaux / France](#)

#### Contact persons

##### Person

[Garçon, Pierre; EcoMundo](#)

##### Last name

Garçon

##### First name

Pierre

##### Organisation

EcoMundo

##### Phone

00 33 (0)1 83 64 20 53

##### Email

[or@ecomundo.eu](mailto:or@ecomundo.eu)

##### Address 1

215, rue Jean-Jacques Rousseau

##### Postal code

92130

##### Town

Issy-les-Moulineaux

##### Country

France

## Identification of substance

---

#### Reference substance

[Fatty acids, C8-18 and C18-unsatd. / Fatty acids, C8-18 and C18-unsatd. / 67701-05-7 / 266-929-0](#)

---

**EC number**

266-929-0

**EC name**

EC Inventory

**CAS number**

67701-05-7

**CAS name**

Fatty acids, C8-18 (even numbered) and C18-unsatd.

**IUPAC name**

Fatty acids, C8-18 and C18-unsatd.

## Type of substance

---

**Type of substance**

UVCB

**Origin**

organic

## Role in the supply chain

---

**Manufacturer**

false

**Importer**

false

**Only representative**

true

**Downstream user**

false

## Composition

### FLEXIBLE\_RECORD: Composition.001

---

**UUID:** f77f7c38-bd5f-4c17-8e9e-e81fe7b06c46

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.293Z

**Remarks:**

---

## General Information

---

### Name

Fatty acids, C8-18 and C18-unsatd.

### Type of composition

legal entity composition of the substance

### State / form

solid: bulk

### Description

DESCRIBE THE PROCESS BEHIND THE PARTICULAR COMPOSITION OF THE UVCB SUBSTANCE

- Identity of starting materials/source (and ratio):

Coconut oil or tallow/water

- Reaction steps/mechanisms:

1. Hydrolysis
2. Distillation
3. Fractionation
4. Hydrogenation

- Relevant operating parameters (e.g. temperature and pressure):

350F-450F

- Solvents/reagents used:

None (water)

- Details on any extraction/isolation steps as appropriate: None

- Details on any clean-up/purification steps as appropriate: Distillation

- Physical-chemical parameters (e.g. boiling point):

pH: 3 - 4

Boiling point/Boiling range: >500°F (260°C) @ 760 mm Hg (101.3kPa)

Flash Point & Method: >300° F (148.9° C) PMCC

Vapor pressure: @ 72°F (22°C) < 1 mm Hg

Specific Gravity (H2O=1): 0.85 - 0.90 @ 49/25°C

## Degree of purity

---

100

% (w/w)

## Constituents

---

### Reference substance

[octanoic acid / octanoic acid / 124-07-2 / 204-677-5](#)

<b>EC number</b>	<b>EC name</b>
204-677-5	EC Inventory
<b>CAS number</b>	<b>CAS name</b>
124-07-2	octanoic acid
<b>IUPAC name</b>	
octanoic acid	
<b>Typical concentration</b>	
ca. 7.09	% (w/w)
<b>Concentration range</b>	
>= 0	<= 10 % (w/w)

**Reference substance**  
[decanoic acid / decanoic acid / 334-48-5 / 206-376-4](#)

<b>EC number</b>	<b>EC name</b>
206-376-4	EC Inventory
<b>CAS number</b>	<b>CAS name</b>
334-48-5	decanoic acid
<b>IUPAC name</b>	
decanoic acid	
<b>Typical concentration</b>	
ca. 7.47	% (w/w)
<b>Concentration range</b>	
>= 0	<= 10 % (w/w)

**Reference substance**  
[lauric acid / dodecanoic acid / 143-07-7 / 205-582-1](#)

<b>EC number</b>	<b>EC name</b>
205-582-1	EC Inventory
<b>CAS number</b>	<b>CAS name</b>
143-07-7	
<b>IUPAC name</b>	
dodecanoic acid	
<b>Typical concentration</b>	
ca. 42.32	% (w/w)
<b>Concentration range</b>	
>= 40	<= 70 % (w/w)



**Reference substance**[myristic acid / Tetradecanoic acid / 544-63-8 / 208-875-2](#)**EC number**

208-875-2

**EC name**

EC Inventory

**CAS number**

544-63-8

**CAS name**

Tetradecanoic acid

**IUPAC name**

Tetradecanoic acid

**Typical concentration**

ca. 23.17 % (w/w)

**Concentration range**

&gt;= 10 &lt;= 25 % (w/w)

**Reference substance**[palmitic acid / Hexadecanoic acid / 57-10-3 / 200-312-9](#)**EC number**

200-312-9

**EC name**

EC Inventory

**CAS number**

57-10-3

**CAS name**

Hexadecanoic acid

**IUPAC name**

Hexadecanoic acid

**Typical concentration**

ca. 12.52 % (w/w)

**Concentration range**

&gt;= 0 &lt;= 15 % (w/w)

**Reference substance**[stearic acid / Octadecanoic acid / 57-11-4 / 200-313-4](#)**EC number**

200-313-4

**EC name**

EC Inventory

**CAS number**

57-11-4

**CAS name**

Octadecanoic acid

**IUPAC name**

Octadecanoic acid

**Typical concentration**

ca. 6.17 % (w/w)

**Concentration range**

&gt;= 0 &lt;= 15 % (w/w)

## Analytical information

### FLEXIBLE\_RECORD: Analytical information.001

---

**UUID:** d9ecf58b-a8d1-4607-91ee-f99369a7b8bc

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.277Z

**Remarks:**

---

## Analytical information

---

## Methods and results of analysis

---

### Analytical determination

**Purpose of analysis**

identification and quantification

**Analysis type**

chromatography – GC

IR

MS

NMR

UV/Vis

**Type of information provided**

methods and results

**Attached methods/results**

2\_EC 266-929-0\_V2.pdf / 3.353 MB ( application/pdf)

**Optical activity**

not relevant

## Information requirements

### Inquiry

**FLEXIBLE\_RECORD:** Inquiry.001

---

**UUID:** 211a1daa-6e81-48f6-a995-2541604b30d0

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.291Z

**Remarks:**

---

### Type of inquiry

---

**Specify the type of inquiry**

Type 3: Inquiry for phase-in substance that has not been pre-registered

### Information requirements

---

**Information requirements requiring new studies to be conducted?**

no

---

# References

## REFERENCE\_SUBSTANCE: decanoic acid

---

**UUID:** ECB5-88eced41-61b0-48a3-bbb0-e43f7e6f103c

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.247Z

**Remarks:**

---

### General information

---

**Reference substance name**

decanoic acid

### Inventory

---

**Inventory name**

decanoic acid

**Inventory**

EC

**Inventory number**

206-376-4

**CAS number**

334-48-5

**Molecular formula**

C<sub>10</sub>H<sub>20</sub>O<sub>2</sub>

**Description**

### Reference substance information

---

**IUPAC name**

decanoic acid

**Synonyms**

<b>Identity</b>
Decanoic acid
<b>Identity</b>
Decanoic acid

### CAS information

---

**CAS number**

334-48-5

---

**CAS name**  
decanoic acid

## Related substances

---

**Group / category information**  
DSL Category: Organics

## Molecular and structural information

---

**Molecular formula**  
C<sub>10</sub>H<sub>20</sub>O<sub>2</sub>

**Molecular weight**

172.2646

**SMILES notation**  
CCCCCCCCC(=O)O

**InChI**  
InChI=1/C<sub>10</sub>H<sub>20</sub>O<sub>2</sub>/c1-2-3-4-5-6-7-8-9-10(11)12/h2-9H<sub>2</sub>,1H<sub>3</sub>,(H,11,12)

**Structural formula**



# REFERENCE\_SUBSTANCE: Fatty acids, C8-18 and C18-unsatd.

---

**UUID:** 5444d603-a8b1-4eeb-9731-d2218a1133ec

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.247Z

**Remarks:**

---

## General information

---

**Reference substance name**

Fatty acids, C8-18 and C18-unsatd.

## Inventory

---

**Inventory name**

Fatty acids, C8-18 and C18-unsatd.

**Inventory**

EC

**Inventory number**

266-929-0

**CAS number**

67701-05-7

**Molecular formula**

**Description**

This substance is identified by SDA Substance Name: C8-C18 and C18 unsaturated alkyl carboxylic acid and SDA Reporting Number: 01-005-00.

## Reference substance information

---

**IUPAC name**

Fatty acids, C8-18 and C18-unsatd.

## CAS information

---

**CAS number**

67701-05-7

**CAS name**

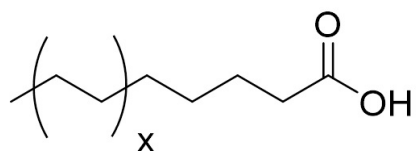
Fatty acids, C8-18 (even numbered) and C18-unsatd.

## Molecular and structural information

---

**Structural formula**

Generic structure



where  $x = 1$  to  $6$

**Remarks**

Molecular formula & molecular weight are not available as the substance is a UVCB

## CONTACT: Garçon, Pierre; EcoMundo

---

**UUID:** 969589fe-4a21-3a95-8b1f-55ce3a908bae

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.244Z

**Remarks:**

---

### General information

---

**Last name**

Garçon

**First name**

Pierre

**Organisation**

EcoMundo

**Phone**

00 33 (0)1 83 64 20 53

**Email**

or@ecomundo.eu

**Address 1**

215, rue Jean-Jacques Rousseau

**Postal code**

92130

**Town**

Issy-les-Moulineaux

**Country**

France

FR



## REFERENCE\_SUBSTANCE: lauric acid

---

**UUID:** ECB5-4e9f2599-5647-46cb-8b8d-15a57d0cb0c4

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.248Z

**Remarks:**

---

### General information

---

**Reference substance name**

lauric acid

### Inventory

---

**Inventory name**

lauric acid

**Inventory**

EC

**Inventory number**

205-582-1

**CAS number**

143-07-7

**Molecular formula**

C<sub>12</sub>H<sub>24</sub>O<sub>2</sub>

**Description**

### Reference substance information

---

**IUPAC name**

dodecanoic acid

### CAS information

---

**CAS number**

143-07-7

### Molecular and structural information

---

**Molecular formula**

C<sub>12</sub>H<sub>24</sub>O<sub>2</sub>

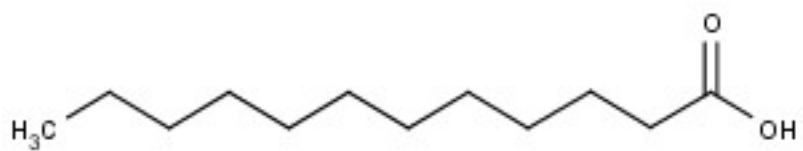
**Molecular weight**

ca. 200.3

**SMILES notation**

CCCCCCCCCCCC(O)=O

Structural formula



---

## REFERENCE\_SUBSTANCE: myristic acid

---

**UUID:** ECB5-da938f82-bb3e-41f5-a652-d5f492b7ba49

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.248Z

**Remarks:**

---

### General information

---

**Reference substance name**

myristic acid

### Inventory

---

**Inventory name**

myristic acid

**Inventory**

EC

**Inventory number**

208-875-2

**CAS number**

544-63-8

**Molecular formula**

C<sub>14</sub>H<sub>28</sub>O<sub>2</sub>

**Description**

### Reference substance information

---

**IUPAC name**

Tetradecanoic acid

**Synonyms**

<b>Identity</b>
Tetradecanoic acid
<b>Identity</b>
Tetradecanoic acid

### CAS information

---

**CAS number**

544-63-8

**CAS name**

Tetradecanoic acid

### Related substances

---

**Group / category information**

DSL Category: Organics

**Molecular and structural information**

---

**Molecular formula**

C<sub>14</sub>H<sub>28</sub>O<sub>2</sub>

**Molecular weight**

228.3709

**SMILES notation**

CCCCCCCCCCCC(=O)O

**InChI**

InChI=1/C<sub>14</sub>H<sub>28</sub>O<sub>2</sub>/c1-2-3-4-5-6-7-8-9-10-11-12-13-14(15)16/h2-13H<sub>2</sub>,1H<sub>3</sub>,(H,15,16)

**Structural formula**



---

## REFERENCE\_SUBSTANCE: octanoic acid

---

**UUID:** ECB5-616da894-2238-41a9-ad62-e5125865b9fe

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.247Z

**Remarks:**

---

### General information

---

**Reference substance name**

octanoic acid

### Inventory

---

**Inventory name**

octanoic acid

**Inventory**

EC

**Inventory number**

204-677-5

**CAS number**

124-07-2

**Molecular formula**

C<sub>8</sub>H<sub>16</sub>O<sub>2</sub>

**Description**

### Reference substance information

---

**IUPAC name**

octanoic acid

**Synonyms**

<b>Identity</b>
Octanoic acid
<b>Identity</b>
Octanoic acid

### CAS information

---

**CAS number**

124-07-2

**CAS name**

octanoic acid

### Related substances

---

**Group / category information**

DSL Category: Organics

**Molecular and structural information**

---

**Molecular formula**

C<sub>8</sub>H<sub>16</sub>O<sub>2</sub>

**Molecular weight**

144.2114

**SMILES notation**

CCCCCCC(=O)O

**InChI**

InChI=1/C<sub>8</sub>H<sub>16</sub>O<sub>2</sub>/c1-2-3-4-5-6-7-8(9)10/h2-7H<sub>2</sub>,1H<sub>3</sub>,(H,9,10)

**Structural formula**



---

## REFERENCE\_SUBSTANCE: palmitic acid

---

**UUID:** ECB5-3502c493-86c0-4ed6-a0f9-2cbb8e82cfdc

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.248Z

**Remarks:**

---

### General information

---

**Reference substance name**

palmitic acid

### Inventory

---

**Inventory name**

palmitic acid

**Inventory**

EC

**Inventory number**

200-312-9

**CAS number**

57-10-3

**Molecular formula**

C<sub>16</sub>H<sub>32</sub>O<sub>2</sub>

**Description**

### Reference substance information

---

**IUPAC name**

Hexadecanoic acid

**Synonyms**

<b>Identity</b> Hexadecanoic acid
<b>Identity</b> Hexadecanoic acid
<b>Identity</b> Hexadecanoic acid

### CAS information

---

**CAS number**

57-10-3

**CAS name**

Hexadecanoic acid

**Related substances**

---

**Group / category information**

DSL Category: Organics

USEPA Category: Anionic Surfactants

**Molecular and structural information**

---

**Molecular formula**

C<sub>16</sub>H<sub>32</sub>O<sub>2</sub>

**Molecular weight**

256.4241

**SMILES notation**

CCCCCCCCCCCCCCCC(=O)O

**InChI**

InChI=1/C16H32O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16(17)18/h2-15H2,1H3,(H,17,18)

**Structural formula**





---

# REFERENCE\_SUBSTANCE: stearic acid

---

**UUID:** ECB5-ba56bb60-907c-4d3f-8d45-364af5945a64

**Dossier UUID:** b3cf2e43-797a-4d89-8257-0c8e5fce5910

**Author:** vhajj

**Date:** 2018-05-17T09:07:50.248Z

**Remarks:**

---

## General information

---

**Reference substance name**

stearic acid

## Inventory

---

**Inventory name**

stearic acid

**Inventory**

EC

**Inventory number**

200-313-4

**CAS number**

57-11-4

**Molecular formula**

C<sub>18</sub>H<sub>36</sub>O<sub>2</sub>

**Description**

## Reference substance information

---

EU: REACH

**IUPAC name**

Octadecanoic acid

**Synonyms**

<b>Identity</b>
Octadecanoic acid
<b>Identity</b>
Octadecanoic acid

## CAS information

---

**CAS number**

57-11-4

**CAS name**

Octadecanoic acid

---

## Related substances

---

### Group / category information

DSL Category: Organics

## Molecular and structural information

---

### Molecular formula

C<sub>18</sub>H<sub>36</sub>O<sub>2</sub>

### Molecular weight

284.4772

### SMILES notation

CCCCCCCCCCCCCCCC(=O)O

### InChI

InChI=1/C<sub>18</sub>H<sub>36</sub>O<sub>2</sub>/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18(19)20/h2-17H<sub>2</sub>,1H<sub>3</sub>,(H,19,20)

### Structural formula

