

# OLEIC ACID



## PRODUCT IN FOCUS



## Oleic Acid

### INTRODUCTION

Oleic acid is an organic liquid that belongs to class of organic fatty acids. It is a monosaturated omega-9 fatty acid that occurs naturally as triglyceride in vegetable oils and fats, tallow oil, olive oil, and membrane phospholipids.

### Manufacture

On industrial scale, it is manufactured by dehydrogenation of stearic acid.

<b>Synonym</b>	cis-9-Octanedioic acid Elainic acid (Z)-octadec-9-enoic acid
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<b>CAS no.</b>	112-80-1
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<b>EINECS no.</b>	204-007-1
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<b>Molecular formula</b>	$C_{18}H_{34}O_2$
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<b>Molecular weight</b>	282.46
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<b>Structure</b>	<chem>CCCCCCCC=CCCCCCCC(=O)O</chem>
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### Applications

#### Intermediates

- Azelaic acid
- Oleyl alcohol
- Oleic acid methyl ester
- Oleamide
- PEG monooleate
- Pentaerythrityl oleate
- Triolein
- Oleyloxazoline

#### Others

- as emulsifier for facial creams and lotions
- as emulsifier in food, beverages, and leather industries
- as accelerator in rubber
- as drilling and fracking agent in oil & gas
- as stabilizer and emulsifier in textiles
- as anionic surfactant in soaps and detergents

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### SPECIFICATIONS

Test	Unit	Specifications
Appearance	-	Clear colourless to light yellow liquid
Acid value	mg KOH/gm	190.0 – 203.0
Peroxide	meq/kg	Max 10
Moisture	%	Max 0.2
Impurities by GC (methyl ester derivatives)		
Elaidic acid	%	Max 0.3
Palmitic acid	%	Max 0.5
Linoleic acid	%	Max 0.5
Other impurities	%	Max 1.0
Purity by GC (methyl ester derivative)	%	Min 99.0

### STORAGE

Stored at ambient temperature

### PACKING

160 kg Composite drum

### REACH Status

Not registered

ExSyn offers oleic acid on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.