



Specification

Product	12-HYDROXY STEARIC ACID
CAS-No.	106-14-9
EINECS/EG-No.	203-366-1
Chemical Formula	C ₁₈ H ₃₆ O ₃

Parameter	Value	Unit	Test Method
Appearance	white flakes		
Acid value	180 - 185	mg KOH/g	AOCS Cd 3d - 63 / AOCS Te 1a - 64
Saponification value	182 - 192	mg KOH/g	AOCS Cd 3 -25
Unsaponifiable matter	<1	%	AOCS Ca 6b - 53
Colour Lovibond 1 inch	< 2.0 < 10.0	Red Yellow	AOCS Cc 13e - 92
Iodine value	< 3.0	Cg iodine/g	AOCS Tg 1a - 64
Gardner Colour	< 5.0	Gardner	AOCS Td 1a - 64
Colour heat stability	max. 7	Gardner	AOCS Ts 3a - 63
Hydroxyl value	155 - 165	mg KOH/g	AOCS Cd 13 - 60
Melting point	74 - 79	°C	AOCS Cc 1 - 25
Moisture	<1	%	AOCS Ca 2c - 25
Fatty acid distribution			ISO 5508/5509
C12-C14	max. 0.50	%	GLC
Palmitic	max. 1.50	%	GLC
C 18-0	max. 12	%	GLC
C 18-1	max. 0.5	%	GLC
12-hydroxystearic acid	min. 85.0	%	GLC
12-ketostearic acid	max. 2	%	GLC
Arachidic C20	max. 1	%	GLC
C 22 behenic	max. 0.5	%	GLC
Others	max. 1.5	%	GLC
Recovery	min. 90	%	GLC

13.04.2018

These details are based on our present knowledge. They do not absolve the processor from responsibility for suitability and quality testing due to the wide variety of potential external influences that may be exerted during the application and processing of this product. Binding / legal warranties concerning the properties for specific applications / purposes cannot be inferred from these details.