

Sales specification 12-Hydroxystearic Acid – Powder

Name	12-Hydroxystearic Acid
Appearance	Off-white Powder
Cas No	106-14-9

Description

12-Hydroxystearic acid (12-HSA) is a saturated fatty acid derived from the hydrolysis of hydrogenated castor oil. It's a waxy, odourless compound available in flakes, pellets, or powder. With excellent oxidative stability, it's mainly used in lubricants, greases, resins, and synthetic waxes.

Quality

Parameter	Specification	Unit	Test method
Appearance	Off white powder		Visual
Acid value	175 - 185	mg KOH/g	AOCS Cd 3d 63 (RA-2017)
Iodine Value	3 Max	g I ₂ /100g	AOCS Tg 1a-64 (RA-2017)
Colour Lovibond 1" cell	2.0R Max, 10.0Y Max	Red, Yellow	AOCS Cc 13e-92 (RA-2017)
Colour Gardner	5 Max	G	AOCS Td 1a-64 (RA-2017)
Melting point	74 - 79	°C	AOCS Cc 1-25 (RA-2017)
Hydroxyl value	155 - 165	mg KOH/g	By GC
Saponification value	182 - 192	mg KOH/g	AOCS Cd 3-25 (RA-2017)
Moisture and volatile matter	1,00% Max	%	AOCS Ca 2c-25 (RA-2017)
Impurities	Free from		
Sieve residue (1000µm)	1% max		Sieve test

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