

12 Hydroxystearic Acid
Technical Data Sheet



Product Identification

12-Hydroxystearic Acid is a saturated monobasic acid derived from castor oil. It has a unique structure being an 18-carbon straight chain fatty acid with a hydroxyl group attached to the 12th carbon in the chain. 12-Hydroxystearic Acid is a light tan translucent waxy solid which is supplied in the form of thin flakes.

	Property	Value
Physical Properties	Molecular Weight	300
	Form	Light tan translucent waxy solid
	Acid Value	180
	Color, Gardner	3
	Density, lbs./gal, 25°C	8.49
	Flash Point, COC, °F	440
	Hydroxyl Value	158
	Iodine Value	2
	Melting Point, °C	76
	Refractive Index	1.4775
	Saponification Value	186
	Specific Gravity, 25°C/25°C	1.021
	Volatile, wt. %	0.1

- Applications**
- Elastomers – As an activator and internal lubricant
 - Plastics – A replacement for stearic acid having greater compatibility and a higher melting point
 - Cosmetics – As a firming agent.
 - Waxes and lubricants – As a blending agent
 - Coatings – As a resin intermediate
 - Greases – As a source of fatty acid for the preparation of glycerine-free lithium and calcium greases.
 - Other – As a raw material with reactive sites at the carboxyl and hydroxyl groups

For toxicity or regulatory information please consult the Material Safety Data Sheet.

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