

SYLFAT™ 2 Tall Oil Fatty Acid

PRODUCT DATA SHEET

SYLFAT 2 Tall Oil Fatty Acid (TOFA) has a high fatty acid content and a low content of rosin acids and unsaponifiables. It provides a combination of light colour, good colour stability and air-drying properties. The utility of SYLFAT 2 Tall Oil Fatty Acid can be found in the long carbon chain (C18), acid function of the carboxyl group (COOH) and unsaturation of the double bonds.

FEATURES:

- Low viscosity, liquid long fatty acid chain
- Low colour and good colour stability
- Monocarboxylic acid functionality
- Reactive polyunsaturation
- High iodine number but low in conjugation (contains pinolenic acid)
- SYLFAT 2 tall oil fatty acid contains 100% USDA certified biobased content

POTENTIAL APPLICATIONS:

- Alkyd resins
- Dimer acids
- Polymers
- Oilfield reagents
- Mining
- Surfactants
- Specialty industrial and household cleaners

SALES SPECIFICATIONS

Property	Test Method*	Specification	Typical Value
Acid Number (mg KOH/g)	AQCM 001	Min 193	196
Colour, Gardner, Photometer	AQCM 002	Max 5	4.2
Free Rosin Acids (%)	AQCM 010	Max 2.1	1.6
Unsaponifiables (%)	AQCM 011	Max 2.5	1.5

*Kraton test methods are available upon request

TYPICAL PROPERTIES

Property	Test Method*	Typical Value
Iodine Number (cg I/g)	AQCM 009	152
Saponification Number (mg KOH/g)	AQCM 019	197
Cloud Point (°C)	AQCM 061	2
Pour Point (°C)	AQCM 060	-14
Viscosity at 20 °C (cP)	AQCM 004	25
Density at 20 °C (kg/m ³)	AQCM 133	905

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SOLUBILITY	SYLFAT™ 2 Tall Oil Fatty Acid is <u>soluble</u> in alcohols, aromatics, esters and ketones, and <u>insoluble</u> in water.
COMPATIBILITY	SYLFAT 2 Tall Oil Fatty Acid is compatible with other liquid fatty acids and vegetable oils.
PACKAGING	SYLFAT 2 Tall Oil Fatty Acid is delivered as a liquid in tank trucks, ISO containers, rail cars, flexi tanks, IBC's or steel drums (as available). Typical delivery temperature is 10 – 30 °C (50 – 86 °F).
STORAGE RECOMMENDATION	<p>SYLFAT 2 Tall Oil Fatty Acid should be stored dry and below 25 °C (77 °F), and away from direct sunlight. The product must be retested after longer storage to ensure the properties are within specification limits. Since colour changes of >1 Gardner unit can be seen over time due to oxygen or heat exposure, testing of product in applications sensitive to colour is recommended prior to use.</p> <p>If precipitation occurs, it does not affect the use of the product as a chemical raw material. Slight heating to about 40 °C (104 °F) dissolves the precipitated material.</p>



The USDA Certified Biobased Product label is a certification mark of the U.S. Department of Agriculture.

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