



Isomergin acids

PRODUCT INFORMATION

Product Description

Isomergin acids are natural fatty acid blends whose polyunsaturated fatty acids have been completely respectively partially transformed into the corresponding conjugated unsaturated fatty acids by catalytic isomerization while the monounsaturated fatty acids remain unmodified.

Our pallet of conjugated fatty acids covers two types which are distinguished essentially by their grade of conjugation.

Typical Parameters

		Isomergin acid SY	Isomergin acid SF
Typical Colour Lovibond 5 1/4"	Yellow	3	3
	Red	0.5	0.4
Acid Value [mg KOH/g]		198 - 202	198 - 202
Spon. Value [mg KOH/g]		198 - 204	198 - 204
Iodine Value [g I ₂ /100 g]		125 - 140	130 - 150
Unsaponifiables [%]		0 - 1	0 - 1
Cloud Point [°C]		Ca. 14	Ca. 12
Conjug. Fatty Acids [%]		50 - 55	55 - 60
Biobased carbon content ¹⁾ [%]		100	100

¹⁾ Measure of the amount of biomass-derived carbon in a product compared to its total carbon content

Application and Properties

Isomergin acids are distinguished from conventional fatty acids by their high reactivity which parallels the content of conjugated fatty acids. These fatty acids are of special value for the industrial production of alkyd resins, epoxy resin esters, modified epoxy resins, copolymerized and water soluble alkyd resins.

In comparison to other conventional fatty acids Isomergin acids are superior to other lacquer binding agents. They offer the advantage of lighter colour, perceptible improved drying characteristics, increased drying speed, higher film hardness and film flexibility, better yellowing resistance and gloss retention, improved weather- and water resistance as well as higher stability under the influence of light and heat.

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