

# SYNATIVE AL G 20

## Composition

2-Octyldodecanol ( Guerbetalkohol )

## Technical Data

Item	Value	Method / Remarks
<b>Appearance:</b>	Colourless slightly yellow liquid	
<b>Cloud Point:</b>	max. -20 °C	Cognis Q-P 1315.0
<b>Acid Value:</b>	max. 0,10	DGF C-V 2
<b>Iodine Value:</b>	max. 8,0	DGF C-V 11 a
<b>Hydroxyl Value:</b>	175 - 190	DGF C-V 17a
<b>Saponification Value:</b>	max. 3	DGF C-V 3
<b>Density:</b> 20 °C	0,835 - 0,845 g/cm <sup>3</sup>	DIN 51757 V4
<b>Viscosity:</b> 20°C	58 - 64 mPas	DGF C-V 7
<b>Viscosity:</b> 40 °C	26.3 mm <sup>2</sup> /sec.	DIN 51562
<b>Color:</b> APHA	max. 25	DIN ISO 6271
<b>2-Octyldodecanol ( GC ) :</b>	min. 90 %	Cognis Q-C 2507.0
<b>Brechunsindex/ refractive Index: 20 °C</b>	1,4535 - 1,4555	DGF C-IV 5
<b>Peroxidzahl/ Peroxide value:</b>	max. 5,0	DGF C-VI 6a

## Quality Control Data

(These data are used for quality release and are certified for each batch.)

Item	Value	Method / Remarks
<b>Acid Value:</b>	max. 0,10	DGF C-V 2
<b>Iodine Value:</b>	max. 8,0	DGF C-V 11 a
<b>Hydroxyl Value:</b>	175 - 190	DGF C-V 17a
<b>Density:</b> 20 °C	0,835 - 0,845 g/cm <sup>3</sup>	DIN 51757 V4
<b>2-Octyldodecanol ( GC ) :</b>	min. 90 %	Cognis Q-C 2507.0
<b>Brechunsindex/ refractive Index: 20 °C</b>	1,4535 - 1,4555	DGF C-IV 5

## Additional Specifications

(Guaranteed specification values which are not determined on a regular basis.)

Item	Value	Method / Remark
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<b>Cloud Point:</b>		max. -20 °C	Cognis Q-P 1315.0
<b>Saponification Value:</b>		max. 3	DGF C-V 3
<b>Viscosity:</b>	20°C	58 - 64 mPas	DGF C-V 7
<b>Viscosity:</b>	40 °C	26.3 mm2/sec.	DIN 51562
<b>Color:</b>	APHA	max. 25	DIN ISO 6271
<b>Peroxidzahl/ Peroxide value:</b>		max. 5,0	DGF C-VI 6a

## Properties & Use

**SYNATIVE AL G 20** is a liquid, saturated alcohol which is branched in  $\beta$ -position to the hydroxyl group. In spite of the low viscosity resp. the low pour point the volatility of **SYNATIVE AL G 20** is very low and the oxidation stability is outstanding.

**SYNATIVE AL G 20** can be used in all applications, where linear fatty alcohols show no sufficient low temperature stability, the volatility of short-chain fatty alcohols is too high and where unsaturated fatty alcohols are not stable enough towards autoxidation and rancidity.

**SYNATIVE AL G 20** is excellently soluble in fatty acid esters and mineral oils.

**SYNATIVE AL G 20** is recommended for following applications:

- base oil in lubricating oils and neat oils (drilling-, cutting-, stamping-, rolling oils)
- base oil/lubricant for spray lubrication techniques in metalworking processes
- solubiliser for water-miscible metalworking fluids

As linear fatty alcohols, **SYNATIVE AL G 20** can be used as raw material for many derivatives. Its esters of mono- and dicarboxylic acids are excellent base fluids with low pourpoint, low volatility and good oxidation stability. Due to their ecologic properties they are widely used for synthetic lubricating oils.

## Additional Technical Data

<b>Pour point</b> (DIN ISO 3016)	-25	°C
<b>Flash point</b> (DIN ISO 2592)	ca. 180	°C

## Ecology

Concerning its ecological characteristics, **SYNATIVE AL G 20** corresponds to legal requirements. Details can be obtained from the material safety data sheet.

## Storage

When stored in refined steel tank (e. g. material-no. 1.4571) at temperature below 30 °C, **SYNATIVE AL G 20** can be stored for 1 month without changing the specified data.

In sealed original drums **SYNATIVE AL G 20** can be stored below 30 °C for at least 1 year.

## Revision-No.

1.1-01.2004 Effective January 26, 2004

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