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synlubestechnology

SYNATIVE AL G 16

Composition

2-Hexyldecanol-1 (Guerbetalcohol)

Technical Data

Item		Value	Method / Remarks
Appearance:		Colourless to slightly yellowish liquid	
Cloud Point:		max. -30 °C	Cognis Q-P 1315.0
Acid Value:		max. 0,5	DGF C-V 2
Iodine Value:		max. 10	DGF C-V 11 a
Hydroxyl Value:		200 - 225	DGF C-V 17a
Saponification Value:		max. 6	DGF C-V 3
Density:	20 °C	0,835 - 0,8400 g/cm³	DIN 51757 V4
Viscosity:	20°C	40 - 50 mPas	DGF C-IV 7
Refractive Index:	20 °C	1,4400 - 1,4600	DGF-C-IV 5
Cloud Point Index:			
Brennpunkt		min. 85 %	Cognis Q-C 2507.0 (GC)
Viskosität, SUS		max. 5,0	DGF C-VI 6a

Quality Control Data

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

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Acid Value:		max. 0,5	DGF C-V 2
Iodine Value:		max. 10	DGF C-V 11 a
Hydroxyl Value:		200 - 225	DGF C-V 17a
Density:	20 °C	0,835 - 0,8400 g/cm³	DIN 51757 V4
Refractive Index:	20 °C	1,4400 - 1,4600	DGF-C-IV 5
Brennpunkt		min. 85 %	Cognis Q-C 2507.0 (GC)

Additional Specifications

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

Item		Value	Method / Remark
Cloud Point:		max. -30 °C	Cognis Q-P 1315.0
Saponification Value:		max. 6	DGF C-V 3
Viscosity:	20°C	40 - 50 mPas	DGF C-IV 7
Viskosität, SUS		max. 5,0	DGF C-VI 6a

Properties & Use

SYNATIVE AL G 16 is a liquid, saturated alcohol which is branched in ß-position to the hydroxyl group. In spite of the low viscosity resp. the low pour point the volatility of **SYNATIVE AL G 16** is very low and the oxidation stability is outstanding.

SYNATIVE AL G 16 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 16 is excellently soluble in fatty acid esters and mineral oils.

SYNATIVE AL G 16 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 16** 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

Pour point (DIN ISO 3016)	-60	°C
Flash point (DIN ISO 2592)	160	°C

Ecology

Concerning its ecological characteristics, **SYNATIVE AL G 16** 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 16** can be stored for 1 month without changing the specified data.

In sealed original drums **SYNATIVE AL G 16** can be stored below 30 °C for at least 1 year.

Revision-No. 1.2-03.2006 Effective March 22, 2006

COGNIS DEUTSCHLAND GmbH & CO KG