

SYNATIVE ES EHO

Composition

2-ethylhexyloleate

Technical Data

Item	Value	Method / Remarks
Appearance:	Clear, slightly yellow liquid	
Flash Point:	min. 180 °C	DIN ISO 2592
Pour Point:	max. -30 °C	DIN ISO 3016
Acid Value:	max. 0,5	DGF C-V 2
Iodine Value:	63 - 71	DGF C-V 11 b
Hydroxyl Value:	max. 0,8	DGF C-V 17a
Saponification Value:	140 - 150	DGF C-V 3
Density: 20 °C	0,860 - 0,870 g/cm ³	DIN 51757, V 4

Quality Control Data

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

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Iodine Value:	63 - 71	DGF C-V 11 b
Hydroxyl Value:	max. 0,8	DGF C-V 17a
Saponification Value:	140 - 150	DGF C-V 3

Additional Specifications

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

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Properties & Use

Due to its outstanding hydrolytical stability, combined with a good lubricity, **SYNATIVE ES EHO** is an excellent ester component for water-miscible metalworking fluids.

Additional Technical Data

Kinematic viscosity (DIN 51562 part 1)		
at 40°C	7 - 9	mm ² /s
at 100°C	2,8	mm ² /s
Viscosity index (DIN ISO 2909)		
	238	
Thermogravimetric Analysis (Cognis-Method TA-TGA-SOP 6) (Loss in mass-% when continuously increasing the temperature at a rate of 20 °C/min)		
200°C	1	%
250°C	10	%
300°C	63	%
EP and AW properties Shell-Four-ball-Tester"		
Diameter of scull-caps (DIN 51350 part 3)		
at 450 N, 1 hour	0,70	mm
at 600 N, 1 hour	1,70	mm
Welding load (DIN 51350, part)		
	1200	N
Ageing/Discolouring (Cognis-Method CCE-CF-AWT)		
a.) original colour	1	
b.) Gardner colour		
at 200°C	1	
at 250°C	1	
at 300°C	9	
Hydrolytic Stability (Cognis-Method CCE-CF-AWT)		
after 0 h	max. 0,3	
after 100 h	13	
after 500 h	91	

Smoke point (DGF C-IV 9)	170	°C
Noack volatility (DIN 51581)	max. 22	%
Carbon residue (DIN 51551)	max. 0,1	%

Revision-No.

1.1-10.2003 Effective October 10, 2003

The product can be stored for at least 2 years at ambient storage conditions and temperature without any deterioration.

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