

SYNATIVE ES EHS

Composition

2-Ethylhexylstearate/-palmitate

Technical Data

Item	Value	Method / Remarks
Appearance:	hellgelbe, ölige Flüssigkeit	
Acid Value:	max. 0,3	DGF C-V 2
Iodine Value:	max. 2,0	DGF C-V 11 a
Hydroxyl Value:	max. 0,8	DGF C-IV 17 a
Saponification Value:	140 - 150	DGF C-V 3
Density: 20 °C	0,855 - 0,865 g/cm ³	DIN 51757
Viscosity: 20°C	14 - 16 mPas	DGF C-IV 7
Color: APHA	max. 50	DIN ISO 6271
Brechungsindex/ Refractive Index: 20°C	1,4470 - 1,4490	DGF C-IV 5
2-Ethylhexanol		

Quality Control Data

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

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Acid Value:	max. 0,3	DGF C-V 2
Saponification Value:	140 - 150	DGF C-V 3
Density: 20 °C	0,855 - 0,865 g/cm ³	DIN 51757
Brechungsindex/ Refractive Index: 20°C	1,4470 - 1,4490	DGF C-IV 5

Additional Specifications

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

Item	Value	Method / Remark
Iodine Value:	max. 2,0	DGF C-V 11 a
Hydroxyl Value:	max. 0,8	DGF C-IV 17 a
Viscosity: 20°C	14 - 16 mPas	DGF C-IV 7
Color: APHA	max. 50	DIN ISO 6271
2-Ethylhexanol		

Properties & Use

Basestock for Lubricants

Additional Technical Data

Pour point (DIN ISO 3016)	10	°C
Kinematic viscosity (DIN 51562 part 1)		
at 40°C	9,5	mm ² /s
at 100°C	2,9	mm ² /s
Viscosity index (DIN ISO 2909)	172	
Flash point (DIN ISO 2592)	210	°C
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	11	%
300°C	64	%
EP and AW properties Shell "Four-ball-Tester"		
Diameter of scull-caps (DIN 51350, part 3)		
at 450 N, 1 hour	0,60	mm
at 600 N, 1 hour	2,00	mm
Welding load (DIN 51350, part 2)	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	-	
Hydrolytic stability (Cognis-Method CCE-CF-AWT)		
after 0 h	max. 0,5	
after 100 h	0,5	
after 500 h	3,0	

Smoke point (DGF C-IV 9)	160	°C
Evaporation loss (DIN 51581)	26	%
Carbon residue (DIN 51551)	0	%

The product can be stored for at least 1 year at ambient storage conditions and temperature without any deterioration.

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COGNIS DEUTSCHLAND GmbH & CO KG

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