

# SYNATIVE ES TMP 05-H

## Composition

Trimethylolpropantrioleate

## Technical Data

Item	Value	Method / Remarks
<b>Appearance:</b>	Clear, yellow liquid	
<b>Flash Point:</b>	min. 300 °C	DIN ISO 2592
<b>Pour Point:</b>	max. -40 °C	DIN ISO 3016
<b>Acid Value:</b>	max. 0,2	DIN 53402 DGF C-V 2 (81)
<b>Iodine Value:</b>	82 - 92	DGF C-V 11 b
<b>Hydroxyl Value:</b>	max. 5	DIN 53240 DGF C-V 17 a (53)
<b>Saponification Value:</b>	178 - 188	DIN 53401 DGF C - V 3 (77)
<b>Viscosity:</b> 40°C	42 - 50 mm <sup>2</sup> /s	DIN 51562, 1
<b>Demulgierverhalten/ Demulsifying properties:</b>	max. 15 min.	DIN ISO 6614 DIN 51599

## Quality Control Data

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

Item	Value	Method / Remarks
<b>Pour Point:</b>	max. -40 °C	DIN ISO 3016
<b>Acid Value:</b>	max. 0,2	DIN 53402 DGF C-V 2 (81)
<b>Iodine Value:</b>	82 - 92	DGF C-V 11 b
<b>Hydroxyl Value:</b>	max. 5	DIN 53240 DGF C-V 17 a (53)
<b>Saponification Value:</b>	178 - 188	DIN 53401 DGF C - V 3 (77)
<b>Demulgierverhalten/ Demulsifying properties:</b>	max. 15 min.	DIN ISO 6614 DIN 51599

## Additional Specifications

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

Item	Value	Method / Remark
<b>Flash Point:</b>	min. 300 °C	DIN ISO 2592

**Viscosity:** 40°C 42 - 50 mm<sup>2</sup>/s DIN 51562, 1

## **Properties & Use**

Basestock, e.g. for hydraulic fluids (ISO VG 46) with excellent demulsifying properties

## **Additional Technical Data**

<b>Kinematic viscosity</b> (DIN 51562 part 1)		
at 100 °C	9,4	mm <sup>2</sup> /s
<b>Viscosity index</b> (DIN ISO 2909)	191	
<b>Thermogravimetric Analysis</b> (Cognis-Method TA-TGA-SOP 6) (Loss in mass-% when continuously increasing the temperature at a rate of 20 °C/min)		
200°C	0	%
250°C	0,3	%
300°C	0,7	%
<b>EP and AW properties</b> Shell "Four-ball-Tester"		
Diameter of scull-caps (DIN 51350 part 3) at 450 N, 1 hour	0,9	mm
Welding load (DIN 51350, part 2)	1400	N
<b>Long term cold temperature stability</b> (Cognis-Method CCE-FC/AWT) liquid at -30 °C	min. 2 weeks	

**Revision-No.**

1.1-04.2004 Effective April 15, 2004

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

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