



# OXITENO'S LINE OF NONIONIC SURFACTANTS - ALKOSYNT® 9125, 9160, 9180



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Oxiten's ALKOSYNT® 91-series is a line of nonionic surfactants based on C9-11 alcohols

## DESCRIPTION

Oxiten's ALKOSYNT® 91-series are a distinct class of nonionic surfactants that are prepared using C9-C11 synthetic alcohol. With a variety of choices that range in HLBs from 8.5 – 13.9, the ALKOSYNT® 91-class of surfactants are a versatile choice in the toolbox for any formulator.

Product	HLB (Calc.)	INCI Name	Water Solubility (20°C)
ALKOSYNT® 9125	8.5	C9-C11 Pareth-3	Insoluble
ALKOSYNT® 9160	12.4	C9-C11 Pareth-6	Soluble
ALKOSYNT® 9180	13.9	C9-C11 Pareth-8	Soluble

## INTERCHANGEABLE ALTERNATIVES

With the everchanging market prices and demands, Oxiten's ALKOSYNT® 91-series can be used interchangeably with Oxiten's ALKOSYNT® ID-series in many applications to better serve our customer's needs.



\*ALKOSYNT® ID- Series is based on synthetic, branched primary alcohols.

## REGULATORY

The current offerings for both ALKOSYNT® 91- and ALKOSYNT® ID-series line of products is available on many of the chemical inventories, including TSCA. For more information regarding the regulatory status of these products, or to obtain a Safety Data Sheet (SDS), please contact your local Oxiten representative.

## KEY FEATURES & BENEFITS

Both the ALKOSYNT® 91- and ALKOSYNT® ID-series are versatile degreasing additives, solubilizing agents, and are commonly used in high efficiency detergents.

## PHYSICAL PROPERTIES

Oxiten's ALKOSYNT® 91-series is a synthetic alcohol that can be used interchangeably with Oxiten's branched synthetic alcohol series (ALKOSYNT® ID-series). Though the carbon distribution and branching are different between the two alcohols, the physical properties are very similar, allowing the formulator to easily interchange ALKOSYNT® 91-series and ALKOSYNT® ID-series in their formulation without the loss of the desired properties.

Physical Properties	ALKOSYNT® 9125	ALKOSYNT® ID 30
INCI Name	C9-C11 Pareth-3	Isodeceth-3
Appearance, at 25 °C	Clear Liquid	Clear Yellow Liquid
Moles of EO	2.5	3
Hydroxyl Number (mgKOH/g)	200	188
HLB (calc.)	8.5	9.1
Pour Point (°C)	-12	-3
Water Solubility at 20 °C	Insoluble	Insoluble
Density at 25 °C (g/mL)	0.93	0.91

Physical Properties	ALKOSYNT® 9160	ALKOSYNT® ID 60
INCI Name	C9-C11 Pareth-6	Isodeceth-6
Appearance, at 25 °C	Hazy Liquid	Hazy Liquid
Moles of EO	6	6
Hydroxyl Number (mgKOH/g)	133	133
Cloud Point (°C) <sup>a</sup>	53	42
HLB (calc.)	12.4	12.5
Pour Point (°C)	6	0
Water Solubility at 20 °C	Soluble	Soluble
Density at 25 °C (g/mL)	0.99	0.99
Equilibrium Surface Tension (mN/m) <sup>b</sup>	27.0	27.0
Ross Miles Foaming (mm) <sup>c</sup>	136/131	124/20

a- 1 wt% in aqueous solution

b- Pendant drop (left) method, 1g/L at 20 °C

c- initial/ 5 min, 1g/L at 25 °C

Physical Properties	ALKOSYNT® 9180	ALKOSYNT® ID 80
INCI Name	C9-C11 Pareth-8	Isodeceth-8
Appearance, at 25 °C	Hazy Liquid	Hazy Liquid
Moles of EO	8	8
Hydroxyl Number (mgKOH/g)	109	109
Cloud Point (°C) <sup>a</sup>	82	77
HLB (calc.)	13.9	13.9
Pour Point (°C)	15	15
Water Solubility at 20 °C	Soluble	Soluble
Density at 25 °C (g/mL)	1.01	1.01
Equilibrium Surface Tension (mN/m) <sup>b</sup>	31	31
Ross Miles Foaming (mm) <sup>c</sup>	131/124	113/83

a- 5 wt% in aqueous solution

b- Pendant drop (left) method, 1g/L at 20 °C

c- initial/ 5 min, 1g/L at 25 °C

## STORAGE & SAMPLING

Store in a covered, well-ventilated area, away from sunlight and away from sources of heat or open flame. Ensure that the storage locale has adequate control of temperature, pressure, and humidity. Keep the containers hermetically sealed when not in use. For more information, consult the Safety Data Sheet (SDS).

ALKOSYNT® 91- and ALKOSYNT® ID- samples are currently available for sampling in 250 mL, 500 mL and 1 L sizes. Please contact your local Oxiten representative for a sample of one or more of the ALKOSYNT® products.

## DISCLAIMER

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Should you have any questions or additional needs, please contact your Customer Service representative.