

# BIODAC 610

Technical Data Sheet No. 1104 – January 2020



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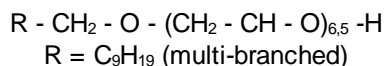


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## Product Description

BIODAC 610 is a fatty alcohol polyethyleneglycol ether, based on iso-decanol and ethylene oxide (about 6,5 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 78330-20-8  
EINECS no. 932-183-6

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 25°C	Visual	-	Cloudy liquid
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (1% water)	RCM 3646	°C	54,0 – 56,0
Hydroxyl number	RCM 3851	mg KOH / g	122 – 126
Molecular weight	Calculated	g/mol	445 – 460
Polyethylene glycols	RCM 1412	% mass	≤ 3,0
√ pH (5%)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,5

√ value reported on inspection certificate.

<sup>1</sup> specification No. 1040 rev. 2 of June 15<sup>th</sup>, 2007.

## Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	65
HLB	Calculated	-	13,0
Pour point	ASTM D97	°C	10
Viscosity at 25°C	ASTM D7042	cSt	45
Viscosity at 50°C	ASTM D7042	cSt	18
Density at 50°C	ASTM D7042	kg/m <sup>3</sup>	980
Flash point	ASTM D 93	°C	> 125

RCM are Sasol Italy analytical methods, internal or referred to international standard. Additional information available upon request.



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## Main Applications

BIODAC 610 is an outstanding wetting agent, with good degreasing performance. It is highly performing for APC formulations.

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## Handling and Storage

BIODAC 610 should preferably be stored in stainless steel tanks.

It is suggested to keep the product at temperature below 40°C, it is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena.

BIODAC 610 is a cloudy liquid at room temperature, improvement of appearance and handling at low temperature can be achieved by mixing the product with 15 weight% water to obtain a clear liquid up to a temperature -10°C.

At room temperature BIODAC 610 is water soluble in every weight ratio.

Shelf-life is 36 months from production date for product in its original and sealed packaging.

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## Packaging

BIODAC 610 is generally supplied in drums, details on available packaging can be obtained from sales department.

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Data regarding safety, transport classes, toxicology and biodegradability of the product can be obtained from the corresponding material safety data sheet.

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