

BIODAC 710

Technical Data Sheet No. 1105 – February 2020



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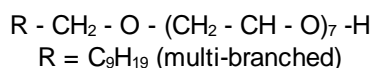


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Product Description

BIODAC 710 is a fatty alcohol polyethyleneglycol ether, based on iso-decanol and ethylene oxide (about 7,0 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 ¹
√ Appearance at 25°C	Visual	-	Cloudy liquid
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (1% water)	RCM 3646	°C	64,0 – 66,0
Hydroxyl number	RCM 3851	mg KOH / g	113 – 117
Molecular weight	Calculated	g/mol	479 – 496
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.

¹ specification No. 1070 rev. 2 of October 10th, 2007.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	68
HLB	Calculated	-	13,5
Pour point	ASTM D97	°C	13
Viscosity at 25°C	ASTM D7042	cSt	50
Viscosity at 50°C	ASTM D7042	cSt	19
Density at 50°C	ASTM D7042	kg/m ³	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 710 is an outstanding wetting agent, with good degreasing performance. It is highly performing for APC formulations.

Handling and Storage

BIODAC 710 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 710 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 710 is water soluble in every weight ratio.

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

Packaging

BIODAC 710 is generally supplied in drums, details on available packaging can be obtained from sales department.

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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