

BIODAC 310

Technical Data Sheet No. 1101 – November 2015



SASOL

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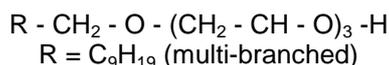


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Product Description

BIODAC 310 is a fatty alcohol polyethyleneglycol ether, based on iso-decanol and ethylene oxide (about 3 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 (10% in BDG at 25°C)	RCM 3646	°C	56,0 – 57,0
Hydroxyl number	RCM 3851	mg KOH / g	180 – 190
Molecular weight	Calculated	g/mol	295 – 312
Polyethylene glycols	RCM 1412	% mass	≤ 2,0
√ 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. 1010 rev. 2 of March 19th, 2007.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	47
HLB	Calculated	-	9,5
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	13
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	950
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 310 due to its low number of EO (low HLB value) is mainly used as a co-emulsifier agent for W/O or O/W emulsions in combination with anionic or non-ionic surfactants with high HLB value. BIODAC 310 is a low foaming surfactant with good wetting properties.

Handling and Storage

BIODAC 310 is generally supplied in bulk, it should preferably be stored in stainless steel tanks or HDPE. It is suggested to keep the product at temperature between 25°C and 40°C, it is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena. At room temperature BIODAC 310 is a cloudy liquid and it becomes clear at temperature higher than about 35°C. At room temperature the product is not water soluble. Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

BIODAC 310 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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