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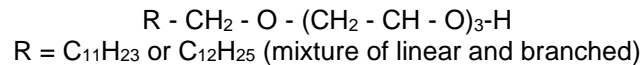
SAFOL23 E3

Technical Data Sheet No. 5131 – September 2024

SASOL

Product Description

SAFOL23 E3 is a fatty alcohol polyethyleneglycol ether, based on SAFOL 23 and ethylene oxide (about 3 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 160901-19-9
EINECS no. 931-954-4
INCI C12-13 PARETH-3, C12-13 ALKETH-3

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	ASTM E284	-	Clear to hazy
√ Colour	EN 1557	APHA	≤ 50
Cloud point (10% in BDG at 25%)	EN 1890	°C	58,0 – 60,0
√ Hydroxyl number	EN 13926	mg KOH / g	166 – 178
Polyethylene glycols	EN 12582	% mass	≤ 2,0
√ pH (5%)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	EN 13267	% mass	≤ 0,20

√ value reported on inspection certificate.

¹ specification No. 1231 rev. 1 of October 1st 2024.

Additional Properties

Property	Test Method	Unit	Typical Value
Molecular weight	Calculated	g/mol	315 – 338
Ethylene Oxide content	Calculated	%w/w	40
HLB	Calculated	-	8,0
Pour point	ASTM D 97	°C	- 6
Viscosity at 40°C	ASTM D7042	cSt	16
Viscosity at 25°C	ASTM D7042	cSt	29
Density at 25°C	ASTM D7042	kg/m ³	930
Flash point	ASTM D 93	°C	> 125



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Main Applications

SAFOL23 E3 is a raw material for preparation of high active matter ethers sulphates aqueous solutions having low viscosity.

Due to its low number of EO (low HLB value), it 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.

Handling and Storage

SAFOL23 E3 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.

SAFOL23 E3 becomes a solid wax at temperature lower than - 6°C.

At room temperature SAFOL23 E3 is not water soluble.

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

Packaging

SAFOL23 E3 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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