

COSMACOL[®] AE-10

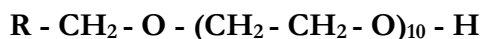


Technical Sheet No. 1503 – March 2010

Sasol Italy S.p.A.

DESCRIPTION

COSMACOL[®] AE-10 is a fatty alcohol polyethylenglycol ether in aqueous solution, based on ISALCHEM[®] 123 and ethylene oxide (10 moles). It is manufactured in our plant located at Terranova dei Passerini (Lodi, Italy). The chemical structure is the following:



R = C₁₁H₂₃ or C₁₂H₂₅ (monobranched)

CAS registry no. 66455-14-9
EINECS no. not defined, polymer
INCI- name C12-13 Pareth-10

SALES SPECIFICATION

Property	Test Method	Unit	Specification ¹
* Appearance at 25°C	visual	-	Clear liquid
* Colour	RCM 3668	APHA	≤ 50
* Cloud point ^{a, b}	RCM 3646	°C	61 - 64
Hydroxyl Number ^b	RCM 3851	mg KOH/g	84 - 92
* pH (5% in water) ^b	RCM 3645	-	6.0 - 7.0
* Water (Karl-Fisher)	RCM 3804	% w/w	9.0 -11.0
Average Molecular Mass ^b	calculated	g/mol	610 - 668
Polyethylene Glycols ^b	RCM 1412	% w/w	≤ 3.0

* values reported on inspection certificate.

¹ specification No. D001720 rev. 2 of October 26th, 2007.

^a 10 wt % in 25% BDG water solution.

^b values referred to neat material

ADDITIONAL PROPERTIES

Property	Test Method	Unit	Typical Value
HLB	calculated	-	13.9
Density at 50°C	RCM 3663	kg/l	0.980

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

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