

SOLFODAC AC-3-I

Technical Data Sheet No. 4001 – January 2020



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Product Description

SOLFODAC AC-3-I is the sulphonic acid of ISORCHEM 113 linear alkyl benzene.

It is manufactured in Terranova dei Passerini (Lodi, Italy) plant. The chemical structure is the following:



CAS registry no. 85536-14-7
EINECS no. 287-494-3

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
✓ Appearance at 25°C	ASTM E284	-	liquid
✓ Anionic active matter (MW = 320)	ASTM D3049	% mass	≥ 96,5
✓ Unsulphonated matter (HPLC)	EN 13273	% mass	≤ 2,5
✓ Colour (5% m/v in Isopropanol)	EN 1557	Klett	≤ 50
✓ Water (Karl-Fischer)	EN 13267	% mass	≤ 0,5
✓ Sulphuric acid	ISO 6844	-	≤ 1,5

✓ value reported on inspection certificate.

¹ specification No. 7010 rev. 3 of March 18th, 2016.

Additional Properties

Property	Test Method	Unit	Typical Value
Total 2-Phenyl Isomer (*)	RCM 1103	% mass	18
Viscosity at 30°C	ASTM D445 / ASTM D7042	cSt	700
Density at 30°C	ASTM D7042 / ASTM D4052	kg/m ³	1.040
Flash point	ASTM D 93	°C	> 125

(*) value determinated on raw material ISORCHEM 113

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



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Main Applications

SOLFODAC AC-3-I is an intermediate for the production of the anionic surfactant, linear alkyl benzene sulphonate sodium salt.

In detergency field the sodium salt of SOLFODAC AC-3-I is used as high performance anionic surfactant in Heavy Duty Liquid, Heavy Duty Powder, Hand Dish Washing and Industrial Degreasing formulations.

SOLFODAC AC-3-I salts is used as surfactant for Enhanced Oil Recovery at high temperature.

Handling and Storage

SOLFODAC AC-3-I should be stored preferably in stainless steel tanks or plastic receptacles.

SOLFODAC AC-3-I must be stored at temperature below 40°C and avoid exposure to light in order to minimise hydrolysis and darkening phenomena.

Storage tanks must be heated with water warmed at a temperature below 50°C. The use of steam to warm up the product is absolutely prohibited.

SOLFODAC AC-3-I is a viscous liquid and soluble in water at room temperature.

Shelf-life is 7 months from production date for product in its original and sealed packaging.

Packaging

SOLFODAC AC-3-I is generally supplied in plastic 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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