

# 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 <sup>1</sup>
√ 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.

<sup>1</sup> specification No. 7010 rev. 3 of March 18<sup>th</sup>, 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 <sup>3</sup>	1.040
Flash point	ASTM D 93	°C	> 125

(\*) value determined 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.

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## 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.

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## Packaging

SOLFODAC AC-3-I is generally supplied in plastic drums, details on available packaging can be obtained from sales department.

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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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