



sasol
reaching new frontiers

ALKYLPHENOLS

Product range

Sasol Performance Chemicals



About us

Sasol's Performance Chemicals business unit markets a broad portfolio of organic and inorganic commodity and speciality chemicals. Our business employs about 1300 people in four key business divisions: Organics, Inorganics, Wax and PCASG (Phenolics, Carbon, Ammonia and Speciality Gases). Our offices in 18 countries serve customers around the world with a multi-faceted portfolio of state-of-the-art chemical products and solutions for a wide range of applications and industries.

Our key products include surfactants, surfactant intermediates, fatty alcohols, linear alkyl benzene (LAB), short-chain linear alpha olefins, ethylene, mineral oil-based and synthetic paraffin waxes, cresylic acids, high-quality carbon solutions as well as high-purity and ultra-high-purity alumina. Our speciality gases sub-division supplies its customers with high-quality ammonia, hydrogen and CO₂ as well as liquid nitrogen, liquid argon, krypton and xenon gases.

Our products are as individual as the industrial applications they serve, with tailor-made solutions creating real business value for customers. Ongoing research activities result in a continuous stream of innovative product concepts that help our customers position themselves successfully in future markets.

Our products are used in countless applications in our daily lives to add value, security and comfort. Typical examples include detergents, cleaning agents, personal care, construction, paints and coatings, leather and metal processing, hot-melt adhesives, bitumen modification and catalyst support for automotive catalysts and other diverse specialty applications including oil and gas recovery, aroma production, plastic stabilisation, and polymer production. Every day, our researchers explore ways to improve our products and develop innovations that improve the quality of people's lives.



Introduction

Sasol Performance Chemicals alkylphenols are produced on a large scale by the acid-catalysed alkylation of phenol with olefins. Consistent product quality is guaranteed due to modern plants using longstanding processing techniques.

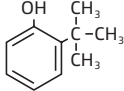
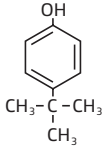
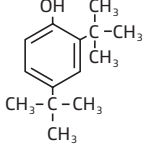
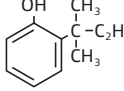
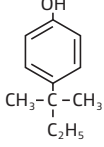
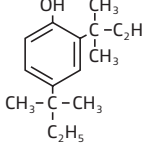
The alkylphenols are predominately used in the

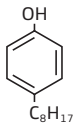
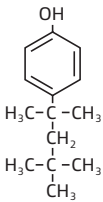
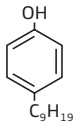
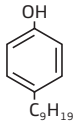
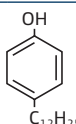
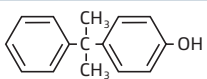
- plastics and rubber additive industry
- lubricant and motor oil industry
- synthesis of herbicides, fungicides, flavours and antioxidants
- resin and paint industry
- production of surfactants
- production of fragrances and stabilizers

The foregoing table supplies you with various details about our current product range. Further information about each individual alkylphenol can be obtained from our product information and the safety data sheet, which we will be happy to provide.



Product range alkylphenols

Product	Formula	Molar mass [g/mol]	Appearance [at 20 °C]	Colour no. [mg Pt/l]	Purity by GC EN 1557 [% by mass]
o-tert-butylphenol		C ₁₀ H ₁₄ O 150.22	liquid, clear	≤ 50	≥ 99
p-tert-butylphenol		C ₁₀ H ₁₄ O 150.22	white flakes	≤ 15 (50 % in meth. soln.)	≥ 99
2,4-di-tert-butylphenol		C ₁₄ H ₂₂ O 206.32	solid pale-coloured crystalline (tends to turn yellow)	≤ 100 melt	≥ 99
o-tert-amylphenol		C ₁₁ H ₁₆ O 164.24	liquid, clear	≤ 100	≥ 98
p-tert-amylphenol		C ₁₁ H ₁₆ O 164.24	white flakes (tends to turn yellow)	≤ 50	≥ 99
2,4-di-tert-amylphenol		C ₁₆ H ₂₆ O 234.4	liquid/solid (tends to turn yellow)	≤ 100	≥ 98

Product	Formula	Molar mass [g/mol]	Appearance [at 20 °C]	Colour no. [mg Pt/l]	Purity by GC EN 1557 [% by mass]
Octylphenol PT	 C_8H_{17} isometric mixture	$C_{14}H_{22}O$ 206.32	white flakes	≤ 50 melt at 90° C	≥ 99 Isomeric monoctylphenols ≥ 90 p-(1,1,3,3-tetra-methylbutyl)phenol
Octylphenol PT High purity	 $H_3C-C-CH_3$ $ $ CH_2 $ $ $H_3C-C-CH_3$ $ $ CH_3	$C_{14}H_{22}O$ 206.32	white flakes	≤ 50 melt at 90° C	≥ 99 Isomeric monoctylphenols ≥ 98 p-(1,1,3,3-tetra-methylbutyl)phenol
Nonylphenol	 C_9H_{19} isometric mixture	$C_{15}H_{24}O$ 220.34	liquid, clear	≤ 50	≥ 99 Nonylphenols ≤ 10 o-nonylphenols ≥ 90 p-nonylphenols
p-nonylphenol 95	 C_9H_{19} isometric mixture	$C_{15}H_{24}O$ 220.34	liquid, clear	≤ 50	≥ 99 Nonylphenols ≤ 5 o-nonylphenols ≥ 95 p-nonylphenols
Dodecylphenol T (base tetrapropylene)	 $C_{12}H_{25}$ isometric mixture	$C_{18}H_{30}O$ 262.4	liquid, clear	≤ 5 iodine colour no. mg l/100ml	≥ 99 Dodecylphenol of which p-alkylphenols ≥ 95 o-alkylphenols ≤ 5
p-cumylphenol		$C_{15}H_{16}O$ 212.28	white flakes	≤ 50 (50 % in meth. soln.)	≥ 99

All registered trademarks displayed in this brochure are the property of the Sasol Group of Companies. Users of this brochure are not permitted to use these trademarks without the prior written consent of their proprietor. All rights not expressly granted are reserved.

This information is based on our present knowledge and experience. We reserve the right to make any changes as a result of technological progress or developments. This information implies no liability or other legal responsibility on our part, including with regard to existing third party patent rights. In particular, no guarantee or warranty of properties in the legal sense is implied. The customer is not exempted from the obligation to conduct careful inspection and testing of incoming goods. Reference to trademarks used by other companies is neither a recommendation, nor should it give the impression that products of other companies cannot be used. All our business transactions are governed exclusively by our General Business Conditions.



At your service



SASOL
reaching new frontiers

Sasol Performance Chemicals

Organics Division

Anckelmannsplatz 1, 20537 Hamburg, Germany

info@de.sasol.com Telephone +49 40 63684-1000 Fax +49 40 63684-3700

Italy

sasol.italy@it.sasol.com

Telephone +39 025 8453-1

Fax +39 025 8453-285

Spain/Portugal

carlos.cabeza@de.sasol.com

Telephone +34 934 876 092

Fax +34 934 876 485

United Kingdom

info.uk@sasol.com

Telephone +44 1564 78 3060

Fax +44 1564 78 4088

Germany/Benelux

michael.peters@de.sasol.com

Telephone +49 2365 49 2216

Fax +49 2365 49 6145

France

jean-francois.petit@fr.sasol.com

Telephone +33 1 44 01 05 37

Fax +33 1 47 662 425

Poland/Baltic States

janusz.duda@pl.sasol.com

Telephone +48 22 860 6146

Fax +48 22 860 6148

Slovakia

sloveca.sk@sloveca.sk

Telephone +421 2 544 30 219

Fax +421 2 544 30 315

North America

info@us.sasol.com

Telephone +1 281 588 3000

South America

alvanei.martins@us.sasol.com

Telephone +55 11 4612 8199

Middle East

abbas.haroon@sasol.com

Telephone +97 14 8086 300

Fax +97 14 8086 400

Pacific Region

jackson.ding@cn.sasol.com

Telephone +852 3971 5988

Fax + 852 2530 4660

P. R. China

liangbo.lu@cn.sasol.com

Telephone +86 (21) 510 86 747

Fax +86 (21) 583 65 602

Japan

yoshihiro.ito@jp.sasol.com

Telephone +81 (3) 3248 6711

Fax +81 (3) 3248 6715

Russia

anna.kogut@de.sasol.com

Telephone +7 495 221 5142

Fax +7 495 926 4807

www.sasol.com