

PRODUCT INFORMATION

WIBARCAN[®]

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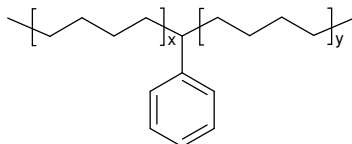
Characterisation

Chemical Name Linear Alkylbenzene (C₁₀ to C₁₃)

Registry CAS-No. 67774-74-7
 EINECS-No. 267-051-0
 REACH-Registration number. 01-2119489372-31-0005

Composition Wibarcan is a mixture of linear monoalkylbenzenes. The alkyl chains mainly contain 10 to 13 C atoms.

Chemical structure The chemical structure of Wibarcan is described by the following general formula.



x,y...Number of C-atoms in the alkylchain
x,y...0 bis 7..10
Total chain length of the alkyl chain = C10 bis C13

Production Wibarcan is produced by alkylation of benzene with chlorinated paraffins using an AlCl₃-catalyst.

Application Wibarcan is mainly used for the production of linear-alkylbenzene-sulfonic acid (Lutensit[®] A-LBS) as well as its salts (Lutensit[®] A-LBN types).

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Physical and chemical properties

<i>Criteria</i>	<i>Typical analysis</i>	<i>Specification</i>	<i>Standards</i>
Appearance	clear liquid	clear liquid	
Color (Saybolt)	> + 30	> + 30	DIN 51411 / ASTM D156
Color (HAZEN)	2	< 10	DIN ISO 6271 / ASTM 1045
Odour	none		
Aver. molec. weight [g/mol]	241	238 - 243	DIN 51405/UOP 673
Density [15 °C/59 °F, g/ml]	0.865		DIN 51757 / ASTM D4052
Viscosity [15 °C/59 °F, mm ² /s]	9.3		DIN 51562 / ASTM D445
Refraction [25 °C/77 °F]	1.485		DIN 51423 / ASTM D1747
Pour point [°C / °F]	< -70 / < -95		DINISO 3016 / ASTM D97
Boiling range [°C / °F]	280-320 / 536-608		DIN 51751 / ASTM D86
Flash point [COC, °C / °F]	144 / 292		DINISO 2592 / ASTM D92
Water [mg/kg]	80	max. 200	DIN 51777 / ASTM D1744
Bromine consumption [wt%]	0.0015	max. 0.005	DIN 51774 / ASTM D2710
Bromine consumption[mg/100g]	1,5	max. 5	DIN 51774 / ASTM D2710
Organic chlorides [wt%]	0.007	max. 0.025	DIN 51408
C-chain distribution			DIN 51405/UOP 673
n-C ₁₀ [wt%]	10	max. 18	
n-C ₁₁ [wt%]	36	25 – 40	
n-C ₁₂ [wt%]	34	25 – 40	
n-C ₁₃ [wt%]	20	15 – 28	
n-C ₁₄ [wt%]	< 0.1	max. 1	
2-Phenylalkane [wt%]	32	25 – 35	DIN 51405/UOP 673
Sulphonability [wt%]		min. 98,5	UOP 429

Note

Further information on request.

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.