

PETRELAB[®] 550 - Q

C10-C13 LINEAR ALKYL BENZENE (LAB)

DESCRIPTION

PETRELAB[®] 550, Linear Alkylbenzene (LAB), is the result of alkylating benzene with n-olefins using an appropriate catalyst. Commercial LAB is a blend of C10-C13 homologues with all positional isomers except 1-phenyl. High 2 phenyl isomers content (25-30%). Detal Technology.

IDENTIFICATION

CAS NUMBER:	67774-74-7
REACH NUMBER:	01-2119489372-31-0003
EC NUMBER:	267-051-0

APPLICATION

PETRELAB[®] 550 - Q is mainly used as a raw material to produce linear alkylbenzene sulfonic acid (LABSA) via sulfonation reaction and then linear alkylbenzene sulfonate (LAS) through neutralization.

LAS is one of the major anionic surfactants used on the market. Important application products are household detergents, such as laundry powders and liquids, dishwashing products and all-purpose cleaners.

TYPICAL PROPERTIES

Property	Unit	Test Method	Typical Value	Specification
Density @ 15°C	g/ml	ASTM D 4052	0.860	0.858-0.868
Color Saybolt		ASTM D 156	30	+29
Color ALPHA/ Hazen		ASTM D 1209		
Bromine Index	mg/100g	ASTM D 2710	1	10 max
Distribution of carbon chain	% (wt)	UOP 673		
< 5 phenyl C10			0.9	1 max
pheny C10			11	16 max
phenyl C10 + Phenyl C11			43	35-55
pheny C11			32	
pheny C12			36	
Pheny C13 + Phenyl C14			20	29 max
pheny C13			19	
phenyl C14			0.5	3 max
> phenyl C14			0.1	0.5 max
2 phenyl alkanes	% (wt)	UOP 673	28	25-30
Average Molecular weight	g/mol	UOP 673	240	239-243
Paraffins	% (wt)	UOP 673	0.05	
Tetralins and Indans	% (wt)	EN 13405	0.5	1 max
Water	ppm	UOP 481	31	100 max



TYPICAL PROPERTIES

Property	Unit	Test Method	Typical Value	Specification
Acid wash test	% transmittance	CQB PR-638	41	15 min
Viscosity @ 100°F	cST	ASTM D 445	3.7	
Flash Point	°C	ASTM D 93	140	
Completeness of sulfonation	% (wt)	CQ PM LC 818	98.5	
Aniline point	°C		17	
Refractive Index @ 20°C			1.483	
Acidity	mg KOH/g		0.05	
Total linear alkylbenzene	% (wt)	UOP 673	>90	
Total branched alkylbenzene	% (wt)	UOP 673	<7	

TRANSPORT

Available in bulk (flexitanks, isotanks, trucks, vessels, railcars).

STORAGE AND HANDLING

Store in accordance with local regulations.

Use Carbon Steel on equipment and pipes for the material in contact with PETRELAB® 550.

For more information, see Safety Data Sheet.

HEALTH AND SAFETY

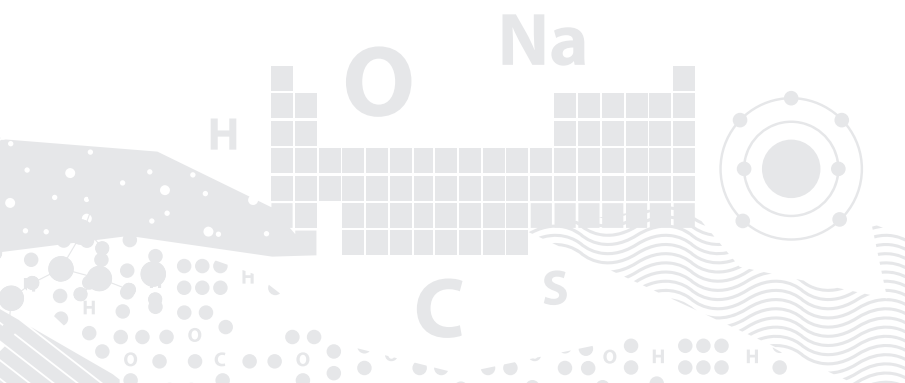
Normal safety precautions should be employed when handling PETRELAB® 550.

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS):

- Asp. Tox. (H304): Category 1.

The sodium sulfonate obtained in the neutralization of the sulfonic acid derived of PETRELAB® 550 complies with biodegradation requirements laid down in the C.E. detergent regulation nº 648/2004.

For more information, see Safety Data Sheet.



For more info, please contact us:
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