

LABSA

CAS No single CAS - LABSA is a mixture · CH_3 · 90% linear alkyl benzene sulphonic acid

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1. Product identity

Product name	LABSA
Synonyms	linear alkyl benzene sulphonic acid, LABSA 90, acid slurry
C.A.S. number	No single CAS - LABSA is a mixture (UVCB) of alkyl chain lengths, so any CAS quoted is representative. The three in commercial use are: 27176-87-0, dodecylbenzenesulfonic acid, EC 248-289-4 (the single-component surrogate that most Indian and Gulf datasheets quote); 85536-14-7, benzenesulfonic acid 4-C10-13-sec-alkyl derivs., EC 287-494-3 (the EU/REACH substance identity used by producers such as Sasol); and 68584-22-5, benzenesulfonic acid mono-C10-13-alkyl derivs. State on the SDS that the product is a mixture and that the CAS given is representative.
Molecular formula	$\text{CH}_3(\text{CH}_2)_{11}\text{C}_6\text{H}_4\text{SO}_3\text{H} = \text{C}_{18}\text{H}_{30}\text{O}_3\text{S}$ for the C12 representative; the commercial product is a blend of C10-C13 homologues
Molecular weight	About 320 +/- 2 for the commercial C10-13 blend (two producer datasheets give this figure); 326.5 g/mol for the pure C12 representative, dodecylbenzenesulfonic acid. Because it is a mixture, quote it as an average.
Grade supplied against	90% linear alkyl benzene sulphonic acid
Appearance	Brown to dark brown viscous liquid ('acid slurry') with a sharp, pungent sulphonic odour
Product group	Surfactants & Oleochemicals
HSN code	3402 31 00
Country of origin	As stated on the producer's documents for the lot supplied; confirmed at offer stage
Packing	225 kg drum · IBC
Storage	Store below 50 degC (one producer limits handling to 50 degC max 55 degC; colour darkens above this) in closed containers of 316 stainless steel, polyester/GRP, or HDPE, in a bunded area with an acid-resistant floor. Protect from frost, direct sunlight and heat. Never use galvanised steel, mild steel, aluminium or copper alloys. Segregate from alkalis and oxidising agents. EU storage class 8AL (combustible corrosive liquid).

2. Analytical specification

S. No.	Test parameter	Specification	Method
1	Description	Brown to dark brown viscous liquid ('acid slurry') with a sharp, pungent sulphonic odour	Visual
2	Identification	Conforms to the substance supplied	Instrumental or chemical test, per method agreed
3	Assay / grade	90% linear alkyl benzene sulphonic acid	Titrimetry or instrumental, per method agreed

S. No.	Test parameter	Specification	Method
4	Physical state	Liquid (viscous; viscosity falls sharply on warming)	Visual
5	Solubility in water	Completely miscible/soluble in water. Dissolution is strongly exothermic and the resulting solution is strongly acidic - add the acid to water, never water to the acid.	Per the test method agreed
6	pH	About 1 measured on a 10 g/L (1%) aqueous solution at 20 degC (Sasol Marlon AS3 N); about 1.5 on a 1% solution (two other producer datasheets); about 2 measured on the neat 96% acid (Transmare Chemie). The number is meaningless without the dilution, so always print the dilution with it.	Potentiometry
7	Relative density	1.03 g/cm ³ at 20-25 degC (Sasol Marlon AS3 N and Transmare Chemie, 96% grade); 1.04-1.05 g/mL at 20 degC and 1.01 g/mL at 25 degC reported by other producers of 96-97% material. For the 90% grade: Not available - expect a slightly different figure because of the higher water content.	Densitometry / hydrometry
8	Melting / freezing point	About -10 degC pour point for the roughly 96% acid (Sasol Marlon AS3 N; Transmare Chemie LABSA 96). For the 90% grade specifically: Not available.	Capillary / thermal
9	Boiling point	About 315 degC is quoted for the 96% grade (Transmare Chemie), but the acid decomposes rather than boiling cleanly. For the 90% grade: Not available.	Distillation range
10	Flash point	About 210 degC (Sasol Marlon AS3 N); greater than 200 degC (Transmare Chemie); greater than 90 degC by DIN 51758 on one 96-97% grade. Not a flammable liquid but combustible - quote your own supplier's measured figure rather than picking one of these.	Closed cup
11	Additional parameters	To the specification agreed before order	As agreed

3. Transport classification

UN 2586 · Class 8 (Corrosive substances) · Packing group III

Proper shipping name: ALKYL SULPHONIC ACIDS, LIQUID or ARYL SULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid - declared in practice as 'ALKYL SULPHONIC ACIDS, LIQUID (alkylbenzenesulphonic acid)'. CRITICAL: this entry only applies if free sulphuric acid is not more than 5%. If the free sulphuric acid content exceeds 5%, the correct entry is UN 2584, ALKYL SULPHONIC ACIDS, LIQUID ... with more than 5% free sulphuric acid, Class 8, Packing Group II. Check the COA before raising the transport document.

What this document is. This is a product specification sheet. It states the grade this material is supplied against, its packing and its identity. **It is not a certificate of analysis, it carries no test results, and it certifies no batch.** Tested values for the consignment actually loaded appear on the batch certificate of analysis issued against that batch, which travels with the despatch documents. Identity and physical data are drawn from PubChem, the ECHA CLP inventory and ILO safety cards; the producer's documents for the grade quoted govern. Velora Chemicals Private Limited is a bulk supplier and trader, not a manufacturer.