BENZENESULFONIC ACID 4- C_{10}- C_{13} SEC- ALKYL DERIVS. SUBSTANCE IDENTIFICATION PROFILE (SIP)

Although it is recognised that the actual composition can be vary slightly depending from the manufacturing process, it is proposed that "Sameness" for the purpose of forming the SIEF is defined as:

LAB & derivatives (EC: 287-494-3 and CAS Nº 85536-14-7)

Which consists of the sulphonic acid of the C10-C13 linear alkyl benzene with the empirical formula as follows :

$$CH_3\text{-}(CH2)_m\text{-}CH(C_6H_4SO_3H)\text{-}(CH_2)_nCH_3$$

where m+n = 7-10 and m,n=0-10

- With all position isomers of the aromatic ring, along the linear alkyl chain, except in the two terminal ends and the sulphonic group in para position, without any other impurity which can impact the classification and labelling.

- With purity and linear alkyl chain distribution as described below.

NAME	CAS Nº	EINECS Nº	Purity (%)	DATS Content (%)[1]
Benzenesulfonic acid 4-C10-13 sec-alkyl derivs	85536-14-7	287-494-3	100 (UVCB): >80 (as A.M.[2])	< 10

Maximum distribution of H-LAS:						
<ΦC10 (%)	**ΦC10 (%)**	**ΦC11 (%)**	**ΦC12 (%)**	**ΦC13 (%)**	**ΦC14 (%)**	**>ΦC14 (%)**
<10	10 to 55	10 to 55	10 to 55	10 to 75	<10	<10

[1] DiAlkylTetralin Sulphonates (DATS) maximum percentage defined by Human & Environmental Risk Assessment (HERA) on ingredients of European household cleaning products, LAS (Linear Alkylbenzene Sulphonate), June 2009, Version 4.0 document.

[2] A.M. = Active material (all sulfonated species)