

PRODUCT CODE: 132363

SDS for analysis, ACS

for determination of surfactants

$C_{12}H_{25}NaO_4S$

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M.= 288,38

CAS [151-21-3]

EINECS 205-788-1

TARIC 2920 90 10 90

SYNONYMS: Dodecyl Sulphate Sodium Salt, Laurylsulphate Sodium Salt, SDS, Sodium Laurylsulphate

PHYSICAL DATA: crystalline powder, White, Soluble in water 100 g/l at 20 °C M.P.: 204 - 207 °C • pH7,5 - 9,0 •

BIBLIOGRAPHY: Merck Index **12**, 8.782 13, 8.710 Sax **SON500** • Safety **2**, **1495 C** • Beilstein **1**, **III**, **1785 IV**, **1847** • BRN 3599286 • Fieser **13281** • ACS **XI** • BP.**2021** • USP **-NF 38** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **12 13** • Royal Decree I1222 **98386** •

HAZARDOUS: RTECS: WT 1050000 • LD50 oral rat 1.288 mg/kg •



H: H302 • H332 • H315 • H228 • H318 • H335 • H412 •

P: P210 • P240 • P241 • P261 • P264 • P501 • P270 • P271 • P273 • P280 • P301+P312 • P302+P352 • P304+P340 • P305+P351+P338 • P310 • P312 • P321 • P330 • P332+P313 • P362 • P370+P378 • P403+P233 • P405 • • •

TRANSPORT REGULATIONS: UN: 1325 • ADR: 4.1/II • IMDG: 4.1/II • IATA: 4.1/ • PAX: 445 • CAO: 448 • (E) •

SPECIFICATIONS:

Minimum assay (a.d.s.)

99,0%

Identity :

Identity

IR passes test

Maximum limit of impurities

ABS	
at λ 220-350 nm 1 cm, 3% (0,1 mol/l) sol. in H ₂ O	0,1
at λ 260nm 1 cm, 3% (0,1 mol/l) sol. in H ₂ O	0,04
at λ 280nm 1 cm, 3% (0,1 mol/l) sol. in H ₂ O	0,02
Alkalinity	0,06 meq/g
Insoluble matter in H ₂ O	0,01 %
Loss on drying at 105°C	1,0%
Chloride (Cl)	0,025%
Phosphate (PO ₄)	0,0001 %
C12 compounds minimum (G.C.)	99%
Unsulfated Alcohols	1%
Water (H ₂ O)	1,0 %
Heavy metals (as Pb)	0,0005%
Pb	0,0005 %