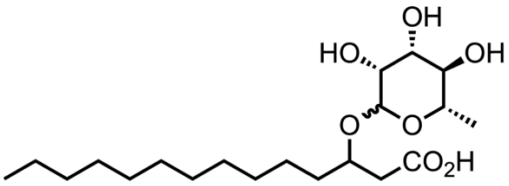
Technical Data Sheet

For research use only
Not intended or approved for diagnostic or therapeutic use.

GLYCOSURF

Product Name: Rhamnolipids C14 (Purity >95%)

Product Number: **Rha-C14 (racemic mixture)**



Molecular Formula: $C_{20}H_{38}O_7$ **MW:** 390.52 **CAS:** Unknown

Surfactant Type: Anionic (above pH 5.5); Non-ionic (below pH 5.5)
Purity: Typically >95% pure (as determined by LC-MS)
Solubility: Water soluble at 0.05 (mol/L), also soluble in most organic solvents.
Appearance: Solid at room temperature; Light Amber/Tan Colored
Storage: Room temperature or below
Critical Micelle Concentration (CMC): 0.5 – 1 mM (between pH = 4 and 8)
Surface Tension (γCMC): 31.4 mN/m (pH 8); 33.8 mN/m (pH 4)
pH = 6 – 7 (1 wt% solution)
Biodegradation: 58% biodegradation after 21 days; Classified as "Inherently Biodegradable"
Foaming Properties: Ross-Miles Test – 70 / 70 mm (0 min / 5 min) @500 µM
Estimated HLB: ~10 (Griffin Method) and ~8.5 (Davies Method).

General: Rhamnolipid (like many of its natural rhamnose-based derivatives) is a good foaming and wetting agent, with the ability to increase the aqueous solubility of hydrophobic compounds, making them excellent solubilizing and emulsifying agents for diverse applications.

Hazardous Properties and Cautions: The toxicological and pharmacological properties of this compound are not fully known. For further information see the SDS on request. Rhamnolipid C14 is manufactured and shipped only in small quantities, intended for research and development in a laboratory utilizing prudent procedures for handling chemicals of unknown toxicity, under the supervision of persons technically qualified to evaluate potential risks and authorized to enforce appropriate health and safety measures. As with all research chemicals, precautions should be taken to avoid unnecessary exposures or risks.