



3050 Spruce Street  
Saint Louis, Missouri 63103 USA  
Telephone 800-325-5832 • (314) 771-5765  
Fax (314) 286-7828  
email: techserv@sial.com  
sigma-aldrich.com

## Product Information

### Niaproof 4

Product Code 4  
Store at Room Temperature

#### Product Description

Molecular Formula:  $C_{14}H_{29}NaO_4S$   
Molecular Weight: 316.4<sup>1</sup>  
CAS Number: 139-88-8  
Boiling Point: 100 °C  
Density: 1.06  
pH: 10.5 (neat), 8.6 (0.1% in water)  
Critical Micelle Concentration (CMC): 2.1 mM (water)  
Synonym: Niacet Anionic 4, Tergitol 4

Niaproof 4 contains approximately 26-28% (w/w) sodium tetradecyl sulfate, 20% (w/w) diethylene glycol ethyl ether, and 1-2% (w/w) sodium chloride. The balance is water.

This product is the same alkyl sodium sulfate anionic surfactant formerly produced by Union Carbide under the Tergitol name. It is a good wetting agent in solutions containing 3-10% dissolved solids.

#### Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

#### Preparation Instructions

Further dilutions of this product can be made in water

#### Storage/Stability

Solutions can be stored at room temperature and should be stable indefinitely. If the solution is refrigerated, it may separate into two phases. Heating the two phases to 30 °C, followed by agitation, should restore the solution to a single phase. More dilute solutions are less likely to separate into two layers.

#### References

1. The Merck Index, 11th Ed., Entry# 8645.

MWM/RXR 1/03

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.