



# Colonial STDES

CTFA/INCI: Sodium Trideceth Sulfate

## DESCRIPTION

**Colonial STDES** combines the rapid wetting action of branched-chain alkyl sulfates with the high foam and excellent foam stability of straight-chain ethoxylates. For both industrial and consumer products, this mild surfactant performs as an emulsifier, wetting agent and detergent base for hard-surface cleaners.

## TYPICAL PROPERTIES

Percent Alkyl Sulfate	29.0 – 31.6
Percent Free Fatty Alcohol, maximum	2.0
Percent Sodium Chloride, maximum	1.0
Percent Sodium Sulfate, maximum	1.5
Color, Gardner, maximum	2
pH, 10% solution	7.5 – 8.5
Cloud Point, °C, maximum	14

## TYPICAL APPLICATIONS

### Emulsion Polymerization

**Colonial STDES** functions effectively as the sole emulsifier in the emulsion polymerization of styrene, styrene-acrylic and styrene-butadiene systems. In such polymers, it provides the following properties:

- Emulsion polymers with particle sizes in the 0.05-0.15 micron range.
- Lower latex viscosity than can be achieved with fatty alcohol sulfate emulsifiers.
- Low foam at low concentrations, compared to most surfactants.
- Stability during the polymerization cycle over a wide range of conditions.

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### WARRANTY

Colonial Chemical guarantees that its products meet published specifications. No other warranties or guarantees are expressed or implied because the use of this material is beyond the control of Colonial Chemical.

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