



Cola[®] Carb TDC

INCI Name: Trideceth-7 Carboxylic acid
CAS No.: 56388-96-6

DESCRIPTION

Cola[®] Carb TDC is a mild anionic surfactant with good hard water tolerance. It thus improves the storage stability of amphoteric formulations, and can be used in combination with all ionic classes of surfactants. **Cola[®] Carb TDC** has applications in personal care and industrial formulations.

APPLICATIONS

Personal Care

Baby shampoos
Liquid soaps
Shampoos
Shower gels
Hair sprays

Industrial

Coatings
Metalworking
All purpose cleaners
Dishwashing Liquids
Laundry

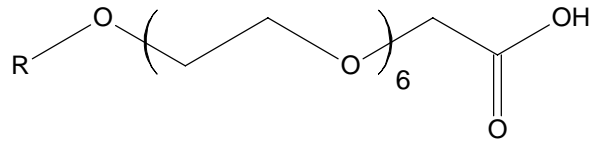
BENEFITS

- Will improve the performance of new and used cleaner baths as well as extend the bath life.
- Especially effective in baths containing alkalis and properties.
- Possesses a very strong wetting action over a broad pH and temperature range.
- Provides a dense foam cover, which holds back corrosive spray and vapors.
- Compatible with anionics.

TYPICAL PROPERTIES

Appearance	Clear Amber Liquid
Color, Gardner '98	3 Max.
Acid Number	45.0 – 52.0
% Solids	90.0 – 92.0
pH (1% DI water)	3.0 – 4.0
Solubility (1% DI water)	Cloudy, translucent dispersion
Sulfuric Acid:	1.0 % Max.
NaCl:	1.0 % Max.

STRUCTURE



R = Tridecyl

PROPERTIES

Ross-Miles Foam Height (1% active), mm

Immed.	160
1 minute	140
5 minutes	135

Draves Wetting (1 % active)

Immediate

Solubility, 10% active solution

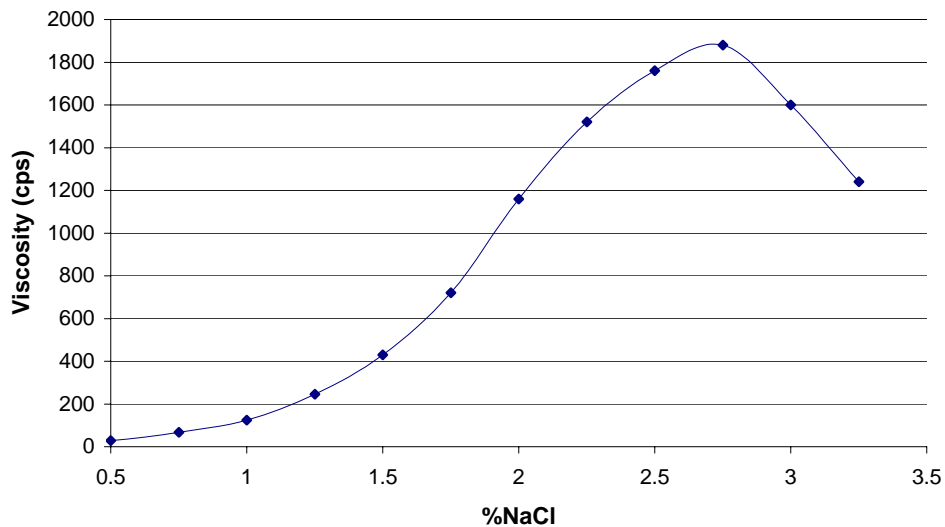
25% NaOH	Cloudy
25% H ₂ SO ₄	Cloudy

Compatibility, 5% active solution

5% active SLS	Completely soluble
5% active DSLS	Completely soluble

Cola[®]Carb TDC shows a typical viscosity-building response to salt when formulated with a sulfate and betaine in a shampoo blend.

**Salt Curve on SLES-2/TDC/LMB
(63.2/21.1/15.8)**



**FORMULATION
SHAMPOO BLEND**

	<u>Wt. %</u>
Water	69.35
EDTA	0.10
Kathon	0.05
Suga [®] Nate 160	6.00
Cola [®] Carb TDC	6.00
Cola [®] Teric LMB	4.50
Glucamate DOE-120	3.00
Citric Acid (50%)	as needed
pH (as is):	6.30
%Solids:	12.54
Draves wetting (1%), sec.	Immediate
Ross Miles (1%), mm	
Immed.	170
1 min.	145
5 min.	140

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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