

Technical Data Sheet

Cola[®]Zolines



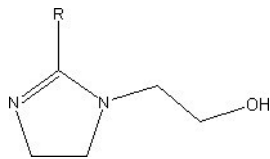
DESCRIPTION

Cola[®]Zolines, chemically described as 1-hydroxyethyl 2-alkyl imidazolines, are classified as neutral agents that can easily be converted to cationic agents. **Cola[®]Zolines** and their acid salts offer the following functional properties: wetting, emulsifying, detergency, thickening, moisture displacing, corrosion inhibiting, and antistatic effects. These functional properties are useful in agricultural emulsions, industrial cleaners, paints/coatings, plastics, and petroleum applications.

CHEMICAL PROPERTIES

Cola[®]Zolines are readily soluble in polar solvents and in hydrocarbons; however they are relatively insoluble in water. The acid salts of **Cola[®]Zolines** with low molecular weight acids (acetic, hydrochloric, or phosphoric acid) are water-soluble. Oil soluble salts can be formed by neutralization with long chain fatty acids, naphthenic acids, and alkyl or aryl sulfonic acids.

TYPICAL PROPERTIES

	C	O	LM	T
Fatty Acid	Coconut/Palm Kernel Oil	Oleic	Lauric Myristic	Tall Oil
Appearance @ 25°C	Amber Liquid*	Amber Liquid*	Amber Liquid*	Amber Liquid*
% Imidazoline (min.)	90	90	90	87
pH (10% dispersion)	10.5 – 12.5	10.5 – 12.0	10.0 – 12.0	10.5 – 12.0
Structure	 The chemical structure shows a five-membered imidazole ring with a nitrogen atom at the bottom. A 2-hydroxyethyl group (-CH2-CH2-OH) is attached to the nitrogen atom. An 'R' group is attached to the carbon atom at the top of the ring.			

*Material may crystallize upon aging or exposure to low temperatures. Mild heat and agitation will restore to original uniform state.

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