



Technical Data Sheet

VERSENE™ Diammonium EDTA Chelating Agent

Product Availability

- North America
- Europe
- Latin America
- Pacific
- India
- Middle East and Africa

Applications

- Cleaning products
- Metalworking
- Polymerization
- Scale removal and prevention

Active Ingredient Name

Diammonium ethylenediaminetetraacetate

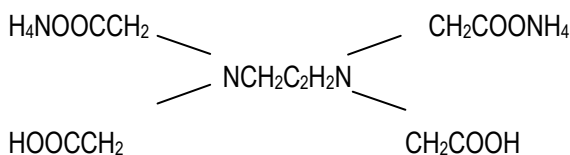
CAS Number

20824-56-0

Chemical Formula

$C_{10}H_{22}N_4O_8$ or
 $(NH_4OOCCH_2)(HOOCCH_2)NCH_2CH_2N(CH_2COOH)(CH_2COONH_4)$

Chemical Structure



Molecular Weight

326.2

Other Names

(NH₄)₂EDTA

Description

VERSENE™ Diammonium EDTA Chelating Agent is an aqueous solution of the diammonium salt of ethylenediaminetetraacetic acid. VERSENE™ Chelating Agents are used successfully to remove calcium and other types of scale from boilers, evaporators, heat exchangers, filter cloths and glass-lined kettles, and also to prevent scale formation.

Typical Properties†

Calcium Chelation Value	137 mg as CaCO ₂ per gram of VERSENE™ Diammonium EDTA	
Equivalent Chelation Capacity	One gram of VERSENE™ (NH ₄) ₂ EDTA has the equivalent chelation capacity of 1.37 mmoles of EDTA	
Metal Chelation Capacity	Parts chelant per part metal (w/w)	
Ca	18.2	
Mg	30.1	
Fe	13.1	
Cu	11.5	
Mn	13.3	
% Assay	45 wt% as (NH ₄) ₂ EDTA 40 wt% as H ₄ EDTA	
Appearance	Light, straw colored liquid	
Specific Gravity at 25/25°C	1.2	
Bulk Density	1200 kg/m ³ or 10 lb/U.S. gal.	
pH	4.6-5.3 (1 wt% solution)	
Freezing Point	-13°C/9°F	
Viscosity, Centistokes	Temperature	Viscosity, Centistokes
	0°C/32°F	10.3
	20°C/68°F	5.4
	40°C/104°F	3.3
Water Solubility	Completely miscible	

† The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications.

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