Technical Data Sheet

VERSENE™ Acid Chelating Agent

Product Name

VERSENE™ Acid Chelating Agent

Product Availability

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

Applications

- Cleaning products
- Metalworking Fluids
- Photography
- Agriculture and micronutrients

Typical Properties[1]

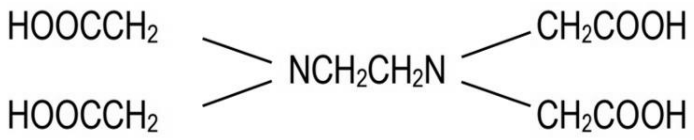
Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Calcium Chelation Value		339 mg as $CaCO_3$ per gram of VERSENE™ Na_2 Acid
Equivalent Chelation Capacity		One gram of VERSENE™ Acid has the equivalent chelation capacity of 3.39 mmoles of EDTA
Metal Chelation Capacity	Parts chelant per part metal (w/w)	
Ca		7.4
Mg		12.2
Fe		5.3
Cu		4.7
Mn		5.4
% Assay		99 wt% as H_4EDTA
Appearance		Solid, white, crystalline
Bulk Density	kg/m^3 (lb./cu. ft.)	870 (54)
pH		2.5–3.0 (saturated solution)
Color		125 maximum (Hazen)
Freezing Point	°C (°F)	240 (464)
Water Solubility	wt% at 25°C/77˚F	< 0.1

1. 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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Active Ingredient Name	Ethylenediaminetetraacetic acid
CAS Number	60-00-4
Chemical Formula	$C_{10}H_{16}O_8N_2$ or $(HOOCCH_2)_2\ NCH_2CH_2N(CH_2COOH)_2$
Chemical Structure	
Molecular Weight	292.24
Other Names	H_4EDTA, EDTA acid
Description	This is the acid form of EDTA and it is a dry product. It is particularly useful in systems where sodium ions are undesirable, as in the preparation of ammonium or other alkali metal salts of EDTA.
Handling Precautions	PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.
Limitations	This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
Health and Environmental Information	To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area. For further information, please see our website, dow.com or consult your local Dow representative.
Disposal Considerations	Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner. It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

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