

Technical Data Sheet

VERSENE™ NTA 148 Chelating Agent

Product Availability

- Pacific
- Europe
- India
- Middle East and Africa

Applications

Cleaning products

Active Ingredient

Name

Trisodium nitrilotriacetate

CAS Number

5064-31-3

Chemical Formula

C₆H₆NO₆Na₃ or N(CH₂COONa)₃

Chemical Structure

NaOOCCH₂ — N — CH₂COONa

CH₂COONa

Molecular Weight

257.1

Other Names

Na₃NTA, NTA

Description

VERSENE™ NTA 148 Chelating Agent is a readily biodegradable, low molecular weight, general purpose chelant. It is classified as readily biodegradable according to OECD definition. It should be considered when (1) maximum stability of the metal chelate complex is not necessary; and (2) cost effective chelation of hardness ions at an alkaline pH is required.

Typical Properties[†]

Equivalent Chelation Capacity	•	VERSENE™ NTA 148 has the
	equivalent chelation	on capacity of 1.48 mmoles of NTA
Metal Chelation Capacity	Parts chelant per part metal (w/w)	
Ca	16.87	
Mg	27.83	
Fe	12.12	
Cu	10.65	
Mn	12.32	
% Assay	38 wt% as Na₃NTA	
Appearance	Clear, straw-colored liquid	
Specific Gravity at 25/25°C	1.3	
Bulk Density	1320 kg/m ³	
Color	250 maximum (Hazen)	
pH	10-12 (1 wt% solution)	
Viscosity, Centistokes	Temperature	Viscosity, Centistokes
•	0°C/32°F	58
	20°C/68°F	13
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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