

Product Information

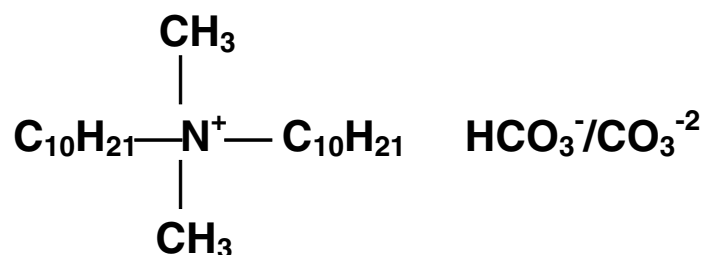
CARBOQUAT® H

Carboquat® H is Didecyl dimethyl ammonium carbonate / Didecyl dimethyl ammonium bicarbonate. This advanced quaternary ammonium compound is a technologically differentiated, research developed manufacturing use product. It's intended use is as an active ingredient raw material for antimicrobial formulations such as disinfectants and sanitizers used on hard, nonporous surfaces. Carboquat® H is freely soluble; exhibits broad spectrum micro efficacy in the presence of organic soil; is non-corrosive to most metals and will protect many metal surfaces from corrosion; has typical foaming characteristics; is compatible with typical nonionic surfactants, many dyes and fragrances.

Active matter

N,N-Dialkyl-N,N-dimethylammonium carbonate / N,N-Dialkyl-N,N-dimethylammonium bicarbonate

Structural formula



Physical Properties

Quat % (MW = 380)	48.5 – 51.5
Free Amine, wt%	≤ 1.5
pH (as is)	9.00 – 11.00
Color, Gardner	4 Max.
Turbidity (NTU) at 25°C NMT	25 Max.
Chloride %	0.03 Max.

Analytical methods are available upon request.

Typical Properties

Appearance at 25°C	Clear to Pale Yellow Liquid
Viscosity	350 cps at 21°C
Specific Gravity	0.96 at 25°C
Flashpoint	> 94° C.

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Corrosion Inhibition

Carboquat® H exhibits excellent corrosion inhibition properties on steel, iron, aluminum, brass, copper and other metals.

Corrosion Results: 1010 Steel coupons held in contact with aluminum in deionized water are shown below. The results demonstrate the effectiveness of Carboquat® H against galvanic corrosion.



**DI Water Control
No Galvanic Contact**

**DI Water Control
Steel/Aluminum Contact**

**0.1% Carboquat® H
Steel/Aluminum Contact**

Solubility

Carboquat® H is freely soluble in water, lower alcohols, ketones and glycols.

Recommendations to Formulate

Incompatible with anionic detergents.

Chemical stability: alkaline to neutral pH.

Storage

Maximum storage temperature 140°F. Keep containers closed when not in use.

Regulatory Information:

EPA Reg. No. 6836-236

California: Pending

Canada: Pending

CAS No.: Proprietary

EINECS No.: Yes

UN No.: 1760

Europe EC 451-900-9

Safety and Toxicology

Refer to the Lonza Material Safety Data Sheet.

Origin

Produced In Mapleton, IL, USA

All raw materials used for the production of Carboquat® H are of non-animal origin.

Packaging

Available in 425 lb. Poly Closed Head Drums

For questions or further information on Lonza Group's broad line of preservatives, please e-mail Technical Sales Support at contact.allendale@lonza.com or call (800) 365-TECH (8324).