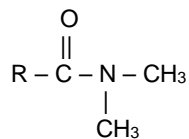


Product Name

NINOL® CAA

Chemical Structure



R = C₁₁ or C₁₃

Chemical Description

NINOL CAA is a dimethyl amide made from saturated, vegetable-derived C₁₂-C₁₄ carbon chains.

CAS Registry No.

3007-53-2 and 3015-65-4

INCI Name

Dimethyl Lauramide/Myristamide

Applications

Functional Properties

- Fragrance solubilizer
- Active ingredient solubilizer
- Foam stabilizer
- Foam booster
- Viscosity booster

End Product Uses

- Shampoos
- Body washes
- Liquid soaps
- Facial cleansers
- Bubble baths
- Deodorants

Typical Properties

BCI (Biorenewable Carbon Index).....	86
Actives (wt %)	100
Appearance at 25 °C.....	Clear to slightly hazy liquid
Density at 25 °C, g/ml (lbs/U.S. gal).....	0.87 (7.3)
Average Molecular Weight (g/mol)	234
Moisture, %	0.1
Viscosity at 25 °C, cps	8
Acid Value, meq/g KOH	<4
pH, 5% in 1:1 IPA/H ₂ O	4.6
Flash Point, PMCC, °C (°F).....	166 (331)
Pour Point, °C (°F)	11 (52)
Cloud Point, °C (°F).....	<11 (<52)
Boiling Point, °C (°F).....	285 (545)
Freeze Point, °C (°F).....	11 (52)
Melting Point, °C (°F)	14 (57)
Color, Gardner	<1
Color, APHA.....	30
Refractive Index at 20 °C	1.45
Surface Tension (as is), dynes/cm	30.8
Dielectric Constant at 25 °C	12.91
 <u>Solubility</u>	
NINOL CAA in water (25 °C; %wt.)	0.01
Water in NINOL CAA (25 °C; %wt.)	1
Methanol	Soluble
Kerosene.....	Soluble
Xylene	Soluble
Hansen Solubility Parameters	δD: 17.3, δP: 8.0, δH: 9.1



Environmental Effects

Product is readily biodegradable. A detailed biodegradation statement is available upon request.

Health Effects

NINOL CAA is slightly toxic orally (LD₅₀=1,750 mg/kg). It causes mild skin and eye irritation.

Storage & Handling

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling NINOL CAA. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

Storage Information: Stainless steel storage vessels are recommended. It is recommended that NINOL CAA be stored in sealed containers at temperatures between 55 °F (12 °C) and 120 °F (49 °C). Avoid overheating or freezing. If material is frozen, mild heat and agitation are recommended to ensure the material is homogeneous before use. Temperatures up to 130 °F (54 °C) can be maintained for long periods of time without degradation of the product.

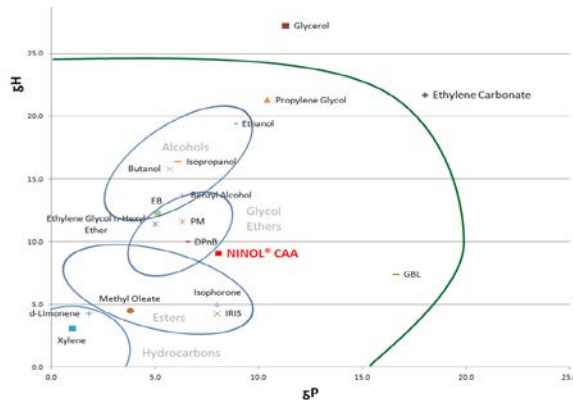
Standard Packaging: NINOL CAA is available in 55 gallon drum and bulk quantities.

Clearances

The international inventories (country clearances) of NINOL CAA can be found in Section 15 of the Safety Data Sheet (SDS). It is the responsibility of the formulator to review the chemical control regulations for each country where the end product is intended to be sold or used. If you have any further questions regarding inventories, please contact North America Technical Service at techserv@stepan.com

The Hansen solubility parameters are a key characteristic of solvency power used to predict if one material will dissolve another one to form a solution. As shown in the graph below, NINOL CAA has a large Hansen space.

Hansen Solubility Solvents Map



Product Stewardship

This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.

Additional Safety Information

A Safety Data Sheet is available upon request.



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