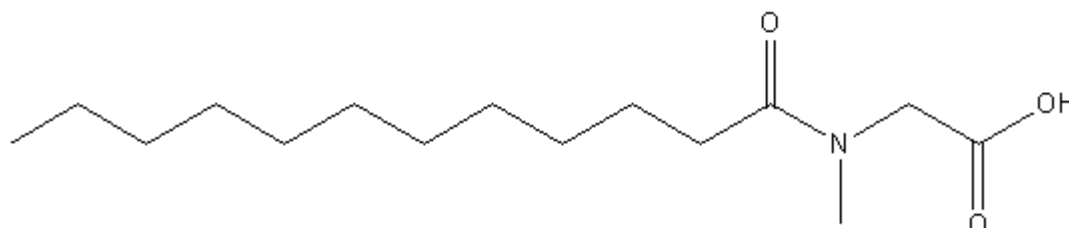


Catalog Number: 190110, 190289, 194008, 194009

N-Lauroylsarcosine

Structure (free acid):



	<i>Free Acid</i>	<i>Sodium Salt</i>
Molecular Formula:	C ₁₅ H ₂₉ NO ₃	C ₁₅ H ₂₈ NO ₃ Na
Molecular Weight:	271.4	293.4
CAS #	97-78-9	137-16-6

Synonyms: N-Methyl-N-(1-oxododecyl) glycine sodium salt; Sodium N-lauroyl sarcosinate

Physical Description: White powder

λ_{\max}^2 : 220 nm, 265 nm

Extinction Coefficient²: $E^M = 3$ (280 nm)

Critical Micelle Concentration (CMC)²²: 14.57 mM at 30° C

Solubility:

Free Acid: Soluble in methanol (50 mg/ml – clear, colorless solution)

Sodium Salt: Soluble in water (100 mg/ml – clear to slightly hazy, colorless solution)

Description: An anionic detergent.² Used for solubilization and separation of membrane proteins and glycoproteins^{3,24}; reported to inhibit hexokinase.⁵ Useful in concentrated salt solutions used in the cell lysis step during RNA purification (helps avoid excessive foaming).¹⁷ Has been used to indicate paramagnetic anisotropy sign change in micelle mesophase.⁴ Inhibits bacterial flora of human saliva/gut at 0.25% as well as acting as a fungistatic agent in aqueous dispersion (1%).⁶

Availability:

Catalog Number	Description	Size
190289	N-Lauroylsarcosine sodium salt, purity not less than 95.5%	50 g 100 g 500 g
194008	N-Lauroylsarcosine sodium salt, purity not less than 95.5%, molecular biology reagent	50 g 100 g 250 g
194009	N-Lauroylsarcosine sodium salt, Ultra Pure Grade, purity not less than 97%	50 g 100 g 500 g
190110	N-Lauroylsarcosine, free acid, purity approximately 95%	50 g 100 g 500 g

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