

Beta-Nicotinamide Adenine Dinucleotide (NAD⁺)

NAD⁺ is the oxidized form of nicotinamide adenine dinucleotide, a coenzyme used in biochemical and ingredient formulations.

CAS No. 53-84-9	EC / List No. 200-184-4	Transport Non-dangerous goods
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Product Information

NAD⁺ is the oxidized form of nicotinamide adenine dinucleotide, a coenzyme used in biochemical and ingredient formulations.

Specifications

Parameter	Specification
Purity (HPLC)	Min 98% HPLC
Appearance	White powder
Loss on drying	≤ 8%
Mesh Size	60 mesh

Selected supply specification; the agreed purchase specification and batch COA govern delivery.

Typical Properties

Property	Typical Value
Molecular formula	C ₂₁ H ₂₇ N ₇ O ₁₄ P ₂
Molecular weight	663.43 g/mol (anhydrous basis)
HS reference	293499

Applications

Analytical and research work: Beta-Nicotinamide Adenine Dinucleotide (NAD⁺) can be evaluated in professional analytical and formulation research. Identity and assay requirements guide material selection; the intended use should be specified when requesting the matching technical documents.

Formulation development: Development teams can compare the stated purity, physical form and impurity criteria when selecting this ingredient. Order the specific grade required for the intended professional formulation or manufacturing process.

Ingredient qualification: Use the product specification and batch COA to define incoming-material acceptance criteria. This helps purchasing teams distinguish the supplied ingredient from extracts, salts or blends with different composition.

Packaging / Storage

Item	Information
Packing	25 kg/bag
Storage	Keep tightly sealed, cool, dry and protected from strong oxidizers. The matched Carl Roth NAD reference specifies 2–8°C; follow the batch instruction for the supplied hydration state.
Shelf life	Follow the batch certificate retest or expiry date and the stated storage conditions.
Handling	Use clean dry tools, suitable gloves and safety goggles. Provide dust extraction during powder transfer and use an appropriate particulate respirator when extraction is insufficient. Avoid ingestion and environmental release.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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