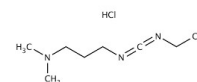




TECHNICAL DATA SHEET

Product name: EDC HCl



Specifications

Parameters	Specifications	Typical results
Appearance	White Powder	white powder
Solubility	Soluble in water	Complies
Water (%w/w by KF)	NMT 1.0% w/w	0.60% w/w
Melting point	110°C - 114°C	110°C-113°C
Identification by IR	IR spectrum of sample recorded in I should concordant with the following functional groups a) C=N stretching bond at 1699+3 1/cm b) N-C stretching bond at 2125+3 1/cm	Complies with standard
Assay by Titrimetry	NLT 98.00% w/w	99.48% w/w

Stability and storage:

It is moisture-sensitive and should be stored in a cool, dry place, preferably at -20°C, under an inert gas like nitrogen.

Keep the container tightly closed to minimize exposure to air and moisture.

The storage area should be cool and well-ventilated to avoid temperature fluctuations and potential condensation.

Application Areas:

EDC HCl is a chemical reagent primarily used in bioconjugation and surface modification. It facilitates the coupling of biomolecules by activating carboxyl groups, making them more reactive with amines to form amide bonds.

EDC-HCl is used to prepare immunoconjugates, where haptens (small molecules that trigger an immune response) are attached to carrier proteins.

General information

CAS No. : 25952-53-8
 IUPAC Name : 3-[
 [(Ethylimino)methylidene]amino-
 N,N-dimethylpropan-1-amine
 Synonyms : EDC hydrochloride
 EC No : 247-361-2

Physical/Chemical properties:

Molecular Formula : C₈H₁₈CIN₃
 Molecular weight : 191.7
 Melting point : 110-115 °C
 Density : 1.044 g/cm³ at 20 °C
 Solubility : Water: 0.2 g/l
 Physical state at 20°C : Liquid

Hazard classification & labelling:

Single Word : Danger

Pictogram :



Classification according to Regulation (EC) No 1272/2008: : H302,H311,H315,H317, H319, H373,H373,H410

Precautionary statement(s) : P264, P280, P261, P260
 P273, P270, P272, P314,
 P301 + P312, P391, P330,
 P312, P332 + P313