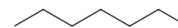


CERTIFICATE OF ANALYSIS

Standard product specification

n-Heptane

CAS 142-82-5 · C₇H₁₆ · ≥99.0% Technical/HPLC


STRUCTURAL FORMULA

1. PRODUCT IDENTITY

Product name	n-Heptane
C.A.S. number	142-82-5
Molecular formula	C ₇ H ₁₆
Molecular weight	100.20 g/mol
Grade / standard	≥99.0% Technical/HPLC
Description	Clear colorless liquid
Product group	Aliphatic Hydrocarbons
Category	Solvents & Glycols
Country of origin	India
Packing	Bags, drums, carboys, IBC or ISO tank as applicable — customer-specified packing available
Storage	Cool, dry, well-ventilated place in tightly closed original packing

2. ANALYTICAL SPECIFICATION

S. NO.	TEST PARAMETER	SPECIFICATION	TYPICAL RESULT	METHOD
1	Description	Clear colorless liquid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Assay	Not less than 99.0 % w/w	99.19	Gas Chromatography
4	Purity (by GC)	Not less than 99.9 % (area)	99.97	Gas Chromatography
5	Colour (APHA / Pt-Co)	Not more than 10	4	ASTM D1209

6	Water Content	Not more than 0.02 % w/w	0.0090	Karl Fischer titration
7	Acidity (as acetic acid)	Not more than 0.002 % w/w	0.0006	Titrimetry
8	Residue on Evaporation	Not more than 0.001 % w/w	0.0002	Gravimetry
9	Specific Gravity at 25 °C	0.681 – 0.687	0.6836	Pycnometry / ASTM D4052
10	Refractive Index at 20 °C	1.3856 – 1.3896	1.3872	Refractometry / ASTM D1218
11	UV Absorbance at 254 nm	Not more than 0.05 AU	0.012	UV Spectrophotometry

3. DECLARATION

This document sets out the standard specification for n-Heptane and applies to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd. It is not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with, and travels with, each consignment. Scapex Exports supplies against customer-specified assay limits and pharmacopoeial standards — send your specification sheet and we confirm compliance in writing before the order is accepted.



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