

TIQ-F-QC-003
 Rev.00

Technical Data Sheet

N-PENTANE 99 % AR

Pentane



Product Code	B-3060	Grade	Analytical Reagent
Purity	99 %	CAS No	109-66-0
Molecular Formula	C ₅ H ₁₂	Molecular Weight	72.15 g/mol
H.S.Code	2901.2990	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colourless
Odour	benzine-like	Melting Point/ Freezing point (°C)	-130 °C
Boiling Point	35-36 °C	Flash point	-40°C
Vapour Density	2.49	Vapour pressure (°C)	585,9 hPa at 21,13 °C
Solubility in water (% weight)	0.038% at 20 °C	Partition coefficient Log Pow octanol / water at 25°C	3.45
Auto-ignition temperature (°C)	260°C	Density (g/cm ³)	0,626 g/cm3 at 25 °C
Explosion limits-lower (%)	1.4 %	Explosion limits – upper (%)	8 %

Packaging

500 ml & 2500 ml

Specification

Appearance	Clear colourless liquid
Assay (by GC)	min 99.0 %
Wt. Per ml at 20 °C	0.624 – 0.626 g/cm ³
Colour	max 10 Hazen
Bromine number	max 0.5
Refractive Index (n _D ²⁰)	1.357 – 1.358
Acidity (as C ₄ H ₉ COOH)	max 0.001 %
Water (H ₂ O)	max 0.02 %
Non-volatile matter	max 0.002 %
Sulphur compounds (as CS ₂)	max 0.0003 %

Copper (Cu)	max 0.00002 %
Iron (Fe)	max 0.00005 %
Lead (Pb)	max 0.00002 %
Substances darkened by H ₂ SO ₄	passes test

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07, GHS08, GHS09

Signal Word: Danger

UN No.: 1265

IMCO Class No.: 3

Packing Group: II

Hazardous Statement: H225-H304-H336-H411

Precaution Statement: P210-P273-P301 + P310-P331-P370+P378+P391