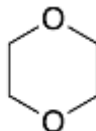


TIQ-F-QC-003
 Rev.00

Technical Data Sheet

1,4-DIOXANE 99,5% AR

p-Dioxane, 1,4-Dioxacyclohexane, Diethylene dioxide



Product Code	B-3002	Grade	AR
Purity	99.5%	CAS No	123-91-1
Molecular Formula	C ₄ H ₈ O ₂	Molecular Weight	88,11 g/mol
H.S.Code	2932.9900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Colourless
pH value	6.0 - 8 at 500 g/l at 20°C	Melting Point/ Freezing point (°C)	10 - 12°C
Boiling Point	100 - 102°C	Vapour density (Air=1.0)	3.04
Vapour pressure (20 °C)	10.7 hPa at 20°C	Solubility in water (% weight)	Completely miscible
Density (g/cm ³)	1.034 g/cm ³ at 25°C	Vapour pressure mm/Hg	27 mm Hg at 20°C
Partition coefficient Log Pow octanol / water at 20 °C	-0.27	Explosion limits-lower (%)	2%
Auto-ignition temperature	375°C	Explosion limits – upper (%)	22%
Flash point (°C)	12°C		

Packaging

500 ml

Specification

Appearance	Clear colorless liquid
Assay (GC)	min 99.5 %
Wt. Per ml at 20 °C	1.032 – 1.034 g/cm ³
Colour	max 10 Hazen
Freezing point	min 11 °C
Refractive Index (n _D ²⁰)	1.421 – 1.423
Water (H ₂ O)	max 0.05 %
Non-volatile matter	max 0.01 %
Acidity (CH ₃ COOH)	max 0.02 %
Acetal [CH ₃ CH(OC ₂ H ₅) ₂]	max 0.8 %

Copper (Cu)	max 0.0001 %
Iron (Fe)	max 0.0001 %
Lead (Pb)	max 0.0001 %

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07, GHS08

Signal Word: Danger

UN No.: 1165

IMCO Class No.: 3

Packing Group: II

Hazardous Statement: H225-H319-H335-H351

Precaution Statement: P202-P210-P233-P240-P305+P351+P338-P308+P313