

TIQ-F-QC-003
 Rev.00

Technical Data Sheet

TETRAHYDROFURAN 99,5% AR

THF; Butylene Oxide; Cyclotetramethylene oxide; 1,4-Epoxybutane



Product Code	B-3071	Grade	Analytical Reagent
Purity	99,5%	CAS No	109-99-9
Molecular Formula	C ₄ H ₈ O	Molecular Weight	72.11 g/mol
H.S.Code	2932.1100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	pH	7-8
Boiling Point	65 °C at 1.013,25 hPa	Melting Point/ Freezing point (°C)	-108,44 °C
Flash point	-21,2 °C	Vapour pressure mm/Hg	170 hPa at 20 °C
Density (g/cm ³)	0,89 g/cm ³ at 20 °C	Explosion limits – upper (%)	12,4
Partition coefficient: noctanol/water	log Pow: 0,45 at 25 °C	Explosion limits-lower (%)	1,5
Auto-ignition temperature	215 °C at 1.013 hPa		

Packaging

2500 mL

Specification

Appearance	A Clear colorless liquid
Assay (GC,area %)	min 99.5 %
Identity (IR)	conforms
Colour	max 10 Hazen
Wt.per ml at 20 °C	0.885 - 0.895 g/cm ³
Refractive index (n ²⁰ D)	1.407 - 1.409
Free acid (as acetic acid)	max 0.001 %
Non-volatile matter	max 0.001 %
Water (H ₂ O)	max 0.03 %
Aluminium (Al)	max 0.00005 %

Barium (Ba)	max 0.00001 %
Boron (B)	max 0.000002 %
Cadmium (Cd)	max 0.000005 %
Calcium (Ca)	max 0.00005 %
Chromium (Cr)	max 0.000002 %
Cobalt (Co)	max 0.000002 %
Copper (Cu)	max 0.000002 %
Iron (Fe)	max 0.00001 %
Lead (Pb)	max 0.00001 %
Magnesium (Mg)	max 0.00001 %
Manganese (Mn)	max 0.000002 %
Nickel (Ni)	max 0.000002 %
Tin (Sn)	max 0.00001 %
Zinc (Zn)	max 0.00001 %
Peroxide (as H ₂ O ₂)	max 0.015 %

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07, GHS08

Signal Word: Danger

UN No.: 2056

IMCO Class No.: 3

Packing Group: II

Hazardous Statement: H225-H302-H319-H335-H336-H351

Precaution Statement: P202-P233-P301+P312-P305+P351+P338-P308+P313