

Product Data Sheet

Sulfolane (Anhydrous) - High Purity Grade

Description

Description	Sulfolane (Tetramethylene Sulfone, Anhydrous) is a high-purity, thermally stable polar solvent used primarily as the extraction medium in aromatics extraction (BTX/paraxylene separation from reformat) and as the key solvent in natural gas sweetening (Sulfinol process). The anhydrous form is specifically preferred over aqueous grades for these applications due to its superior thermal and chemical stability in closed-loop refining systems.
Applications	Aromatics extraction – separation of benzene, toluene and xylene (BTX) from reformat/pyrolysis gasoline Natural gas sweetening (Sulfinol process) – removal of H₂S, CO₂ and mercaptans Specialty solvent for polymer, agrochemical and pharmaceutical intermediate synthesis Lithium-ion battery electrolyte solvent (emerging high-purity application)
Grade	High Purity Anhydrous Grade, Min. 99.5% Assay
CAS No.	126-33-0

Key Benefits

1. High thermal and chemical stability suited to closed-loop refining/extraction systems
2. Very low water content (anhydrous) preferred for aromatics extraction and gas sweetening performance
3. High assay and low colour supporting long service life and recyclability in extraction units
4. Consistent quality supporting reliable, predictable process performance

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
Assay (Sulfolane Content)	GC Method	wt%	Min. 99.5
Water Content	Karl Fischer Method	wt%	Max. 0.1
Colour (APHA/Pt-Co)	Visual/Colorimetric Method	–	Max. 15
Acidity (as H ₂ SO ₄)	Titration Method	wt%	Max. 0.005
Sulphate Content	Gravimetric Method	wt%	Max. 0.01
Density @ 20°C	Density Meter	g/cm ³	1.261 – 1.265
Freezing Point	Standard Freezing Point Method	°C	27.5 – 28.5
Appearance	Visual	–	Colourless to pale yellow clear liquid (melts ≈ 28°C)

Packaging

Packaging 200 kg (Net) HDPE/Steel Drums
1,000 L IBC Totes
Flexitank / ISO Tank for bulk liquid shipment (heated for loading/unloading given its melting point)
Custom packaging available on request.

Storage & Handling

1. Store in a cool, dry, covered area – product solidifies below ≈28°C and may need gentle warming before pumping/transfer
2. Keep containers tightly closed to prevent moisture ingress – moisture pickup compromises the anhydrous specification

3. Keep away from strong oxidising agents
4. Avoid prolonged exposure to elevated temperatures beyond recommended handling limits

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting assay, water content and colour against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.