

Dimethyl Disulfide (DMDS)

Adding sulfur compounds to feed is one of the conventional methods to overcome the effects of coke formation on cracking processes. In cracking process hydrogen sulfide, dimethyl disulfide, thiophene, dibenzyl sulfide, use for prevent coke formation. DMDS is one of the most conventional sulfide compounds that used in olefins and other cracking units for this purpose.

DMDS with the $\rm C_2H_6S_2$ chemical formula is also known as methyl disulfide and is the simplest compound of disulfide.

The following table shows the most important specification of DMDS 99:

TDS DMDS 99.5

Property	Unit	Typical Value	Test Method
Appearance		Light yellow	Visual
Purity	wt%	99.5 min	Chromatography
Water content	ppm	500 max	Chromatography
Density @60 °F	gr/ml	1.06	ASTM D4052
Molecular weight	gr/mol	94.2	
Total sulfur	wt%	67.5 min	ASTM D4294
Methyl mercaptan	ppm	200 max	ASTM D2913
Dynamic Visocosity @70 °F	mPa.s	0.62	ASTM D7042
Flash Point, TCC	°F	60	ASTM D56



Advantages of using DMDS:





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DMDS applications

- Petrochemical industries
 - Coke inhibitor in olefin furnaces
 - Propane dehydration
- Refining industries
 - Sulfiding of hydrocracking catalysts
 - Hydrodesulphurization catalyst
 - Hydrotreating catalysts
- Increased thermal cracking speed
- Increased selectivity of hydrocarbons conversion
- O Prevent formation of coke at the internal surface of reactor coils
- Agricultural industries

Packing

DMDS is available in following packings:

O IBC (Net weight: 1,000 kg)

O ISO-tank containers (Net weight: 20,000 kg)

Steel Drum (Net weight: 200 kg)





Who we are

Rayeneh Group is an international supplier of Chemicals, Catalysts, and Equipment in the Oil, Gas, Petrochemical, and Mine Industries. Since its establishment in 1999, Rayeneh has continuously strived to reach new markets while offering world class services. As of today, Rayeneh Group operates international offices in our territory with unique access to sources of high-quality chemicals, and is one of the major players in the chemicals market. As dictated by our policy, "Serving Our Clients Beyond Their Requirements "has always been at the forefront of our operations." Rayeneh Group is the exclusive representative & distributor of DMDS that is produced in Iran.

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Rayeneh Group

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