



SOVEREIGN CHEMICAL COMPANY

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Sovchem® DTDM

Manufacturer

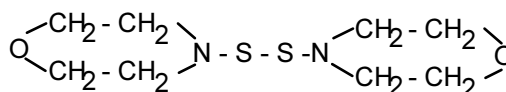
Sovereign Chemical Company

Classification

Sulfur Donor

Chemical Composition

Chemical Structure



Empirical Formula

C₈H₁₆N₂S₂O₂

Molecular Weight

236.4

CA Nomenclature

Morpholine, 4,4'-dithiobis

Synonym Nomenclature

Morpholine disulfide

Di-morpholine disulfide

Dithiodimorpholine

Physical Data

Specification Properties

	Value		Test Method
	Powder	Granule	
Melting Point (initial), ° C	120.0-130.0	120.0-130.0	GB11409.1
Melting Point (final), ° C	124.0-128.0	123.0-131.0	GB11409.1
Heat Loss, % by mass	0.30 max	0.30 max	GB11409.4
Ash Content, % by mass	0.30 max	0.30 max	GB11409.7-89
Sieve Retention, % @160 μ	0.10 max		GB11409.5-89
Sulfur Content, %	26.0-29.0		
4,4'-tetrathio-dimorpholine, %	1.5 max		Q/PWH012-2007
Assay, %	97.5 min	95.0 min	

Typical Properties

	Value	Test Method
Physical Form	White powder or granule	Visual
Specific Gravity	1.36	Typical

Applications

Uses: Sulfur donor vulcanizing agent for efficient vulcanization and semi-efficient vulcanization cure system, provide heat/reversion/aging resistance in NR and synthetic rubbers, non-blooming.

Packaging and Storage

Packaging: 25 Kg. (55.1 lb.) bag

Shelf Life: 1 year from date of manufacture if stored as indicated below

Storage: Product should be stored in cool, dry place with good ventilation, avoiding exposure of the packaged product to direct sunlight.

Specification Date: August 27, 2015 (Supersedes: May 13, 2013)