

'DOCK/ CHEMICALS

SEMICONDUCTORS DECISION



Titanium Precursor for CVD application

'MO-CVD

BP: 50 °C/122 °F/0.07 hPa

'TDMATi-TETRAKISDIMETHYLAMIDOTITANIUM

PRODUCT DATASHEET

TDMATi-TETRAKISDIMETHYLAMIDOTITANIUM

IDENTIFICATION

| | |
|--------------------------|----------------|
| CAS-No: | 3275-24-9 |
| EINECS/ELINCS-No: | not registered |
| Other names: | none |

MO-CVD

PHYSICAL PROPERTIES

| | |
|-------------------------------|---|
| Vapor pressure equat.: | $\lg p(\text{Torr}) = 8.6 - 2850/T(\text{K})$ |
| Density: | 0.947 g/cm ³ |
| Molweight: | 224.2 g/mol |
| Melting point: | n.a. |
| Boiling point: | 50 °C/122 °F/0.07 hPa |

CHEMICAL PROPERTIES

| | |
|-------------------------|------------------------|
| Stability: | Stable under inert gas |
| State of matter: | Liquid |

SAFETY & TRANSPORT

| | |
|--------------------------------|----------------------------|
| Toxicity: | Toxic if swallowed |
| Explosion limit Vol%: | n.a. |
| Auto ignition temp. °C: | n.a. |
| ADR/RID | |
| ADR/RID-class: | 4.3 |
| UN-no: | 3129 |
| IMDG | |
| IMDG -class: | 4.3 |
| UN-no: | 3129 |
| ICAO/IATA | |
| ICAO/IATA-class: | 4.3 |
| UN-no: | 3440 – AIR FREIGHT ALLOWED |

For further details please refer to Safety Data Sheet (SDS)

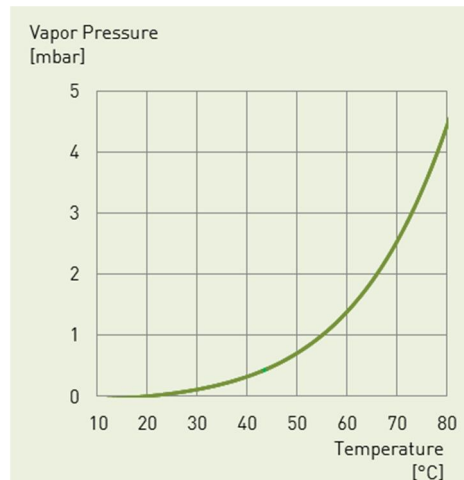
PACKAGING & STANDARD FILLING VOLUMES

| | |
|---------------------------------|----------------------|
| TDMATi.100.DOCK/10.150 | 100g / 150ccm cyl. |
| TDMATi.350.DOCK/10.400 | 340g / 400ccm cyl. |
| TDMATi.900.DOCK/10.1000 | 850g / 1000ccm cyl. |
| TDMATi.2800.DOCK/10.3000 | 2500g / 3000ccm cyl. |
| TDMATi.3900.DOCK/10.4000 | 3400g / 4000ccm cyl. |

QUALITY STANDARDS

EG Electronic Grade

VAPOR PRESSURE CURVE



APPLICATION

Tetrakisdimethylamidotitanium (TDMATi) is a liquid chemical source suitable for the chemical vapor deposition of titanium nitride layers. TiN films are effective diffusion barriers for semiconductor device applications.

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PRODUCT DATASHEET

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