

**'DOCK/
CHEMICALS**

SEMICONDUCTORS DECISION

$C_{10}H_{30}N_5Ta$

Tantalum precursor for CVD and ALD

'MO-CVD

BP: 150 °C / 302 °F (1013 hPa)

'PDMATa- PENTAKIS(DIMETHYLAMINO)-
TANTALUM(V)

PRODUCT DATASHEET

'PDMATa- PENTAKIS(DIMETHYLAMINO)TANTALUM(V)

IDENTIFICATION

CAS-No:	19824-59-0
EC-No:	624-567-4
Other name:	-

'MO-CVD

PHYSICAL PROPERTIES

Vapor pressure:	<0.01 hPa (20 °C)
Density:	ca. 1.2 g/cm ³
Molweight:	401.33 g/mol
Melting point:	100 °C / 212 °F (decomposition)
Boiling point:	150 °C / 302 °F (1013 mbar)

CHEMICAL PROPERTIES

Stability:	Stable under inert gas
State of matter:	Solid

SAFETY & TRANSPORT

Toxicity:	Corrosive, Water-reactive, Flammable
Explosion limit Vol%:	n.a.
Auto ignition temp. °C:	n.a.
ADR/RID	
ADR/RID-class:	4.3(4.1)
UN-no:	3132, PG I
IMDG	
IMDG -class:	4.3(4.1)
UN-no:	3132, PG I
ICAO/IATA	
ICAO/IATA-class:	4.3(4.1)
UN-no:	3132, PG I – AIRFREIGHT ALLOWED

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

PACKAGING & STANDARD FILLING VOLUMES

PDMATa.100.DOCK/10.150	100g / 150ccm cyl.
PDMATa.400.DOCK/10.400	400g / 400ccm cyl.
PDMATa.600.DOCK/10.600	600g / 600ccm cyl.
PDMATa.1000.DOCK/10.1000	1000g / 1000ccm cyl.
PDMATa.3000.DOCK/10.3000	3000g / 3000ccm cyl.

QUALITY STANDARDS

EG Electronic Grade

VAPOR PRESSURE CURVE

n.a.

APPLICATION

TaN CVD and ALD

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PRODUCT DATASHEET

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