

**'DOCK/
CHEMICALS**

SEMICONDUCTORS DECISION

$C_8H_{24}HfN_4$

Hafnium precursor for CVD and ALD
processes

'MO-CVD

BP: 60 °C/140 °F/1013hPa

'TDMAHf-TETRAKIS-DIMETHYLAMIDO-HAFNIUM

PRODUCT DATASHEET

'TDMAHf-TETRAKIS-DIMETHYLAMIDO-HAFNIUM

IDENTIFICATION

CAS-No:	19782-68-4 (19962-11-9)
EINECS/ELINCS-No:	not registered
Other names:	none

'MO-CVD

PHYSICAL PROPERTIES

Vapor pressure:	$\lg p(\text{Torr}) = 9.99 - 3377/T(\text{K})$
Density:	1.4 g/cm ³
Molweight:	354.79 g/mol
Melting point:	26-29 °C/79-84 °F
Boiling point:	60 °C/140 °F (0.01 hPa)

CHEMICAL PROPERTIES

Stability:	Stable under recommended storage conditions
State of matter:	Solid

SAFETY & TRANSPORT

Toxicity:	Hf products may be fatal if ingested
Explosion limit Vol%:	n.a.
Auto ignition temp. °C:	n.a.
ADR/RID	
ADR/RID-class:	4.3
UN-no:	3399
IMDG	
IMDG -class:	4.3
UN-no:	3399
ICAO/IATA	
ICAO/IATA-class:	4.3
UN-no:	3399

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

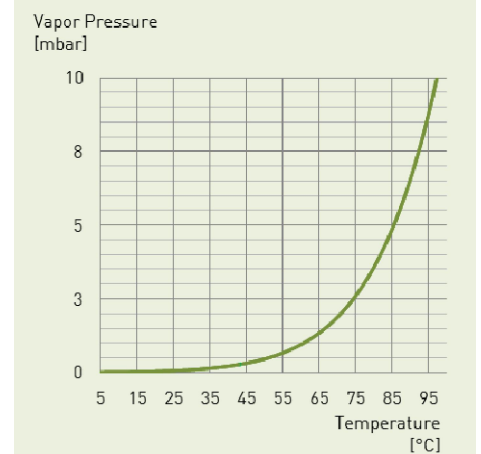
PACKAGING & STANDARD FILLING VOLUMES

TDMAHf.100.DOCK/10.150	100g / 150ccm cyl.
TDMAHf.450.DOCK/10.400	450g / 400ccm cyl.
TDMAHf.1100.DOCK/10.1000	1100g / 1000ccm cyl.
TDMAHf.3300.DOCK/10.3000	3300g / 3000ccm cyl.
TDMAHf.4400.DOCK/10.3950	4400g / 3950ccm cyl.

QUALITY STANDARDS

EG Electronic Grade

VAPOR PRESSURE CURVE



APPLICATION

Tetrakisdimethylamidohafnium (TDMAHf) is a solid chemical source suitable for the chemical vapor deposition of Hafnium Oxide layers.

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