

'DOCK/ CHEMICALS

SEMICONDUCTORS DECISION



Magnesium dopant for MOVPE
application

'MO-III/V

BP: 176 °C/349 °F/1013 hPa

'Cp₂Mg-BISCYCLOPENTADIENYLMAGNESIUM

PRODUCT DATASHEET

'Cp₂Mg-BISCYCLOPENTADIENYLMAGNESIUM

IDENTIFICATION

CAS-No:	1284-72-6
EINECS/ELINCS-No:	not registered
Other name:	Magnesocene

'MO-III/V

PHYSICAL PROPERTIES

Vapor pressure equat.:	$\lg p(\text{Torr}) = 25.14 - 4198/T(\text{K}) - 2.18 \ln[T(\text{K})]$
Density:	1.1 g/cm ³
Molweight:	154.4 g/mol
Melting point:	176 °C/349 °F
Boiling point:	>300 °C (decomposes)

CHEMICAL PROPERTIES

Stability:	Stable under inert gas
State of matter:	Solid

SAFETY & TRANSPORT

Toxicity:	n.a.
Explosion limit Vol%:	Pyrophoric
Auto ignition temp. °C:	Pyrophoric
ADR/RID	
ADR/RID-class:	4.2
UN-no:	3393
IMDG	
IMDG-class:	4.2
UN-no:	3393
ICAO/IATA	
ICAO/IATA-class:	4.2
UN-no:	3393 – AIR FREIGHT FORBIDDEN

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

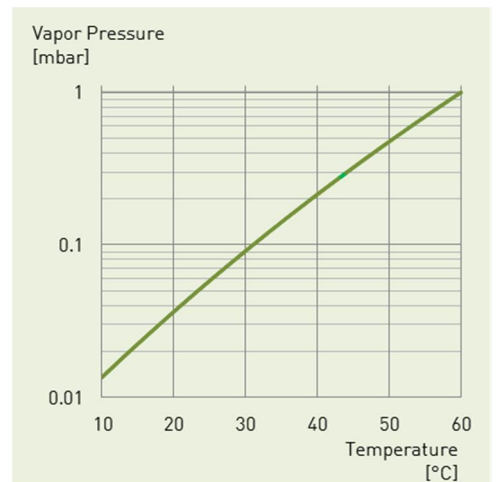
PACKAGING & STANDARD FILLING VOLUMES

Cp₂Mg.50.DOCK/10.150	50g / 150ccm cyl.
Cp₂Mg.100.DOCK/10.150	100g / 150ccm cyl.
Cp₂Mg.200.DOCK/10.400	200g / 400ccm cyl.
Cp₂Mg.400.DOCK/10.600	400g / 600ccm cyl.

QUALITY STANDARDS

EG Electronic Grade

VAPOR PRESSURE CURVE



APPLICATION

III/V MOCVD
GaN-based material system
Si-semiconductors, III/V on Si

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PRODUCT DATASHEET

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