

'DOCK/ CHEMICALS

SEMICONDUCTORS DECISION



Iron dopant for MOVPE
application

BP: 249 °C/480 °F/1013 hPa

'MO-III/V

'Cp₂Fe-BISCYCLOPENTADIENYL-IRON

PRODUCT DATASHEET

'Cp₂Fe-BISCYCLOPENTADIENYL-IRON

IDENTIFICATION

CAS-No:	102-54-5
EINECS/ELINCS-No:	not registered
Other name:	Ferrocene

'MO-III/V

PHYSICAL PROPERTIES

Vapor pressure equat.:	$\lg p(\text{Torr}) = 10.27 - 3680/T(\text{K})$
Density:	1.49 g/cm ³
Molweight:	186 g/mol
Melting point:	172-175 °C / 342-347 °F
Boiling point:	249 °C/480 °F

CHEMICAL PROPERTIES

Stability:	Stable
State of matter:	Solid

SAFETY & TRANSPORT

Fish Toxicity:	LC50 (4.5 mg/L) 31d
Explosion limit Vol%:	n.a.
Auto ignition temp. °C:	n.a.
ADR/RID	
ADR/RID-class:	4.1, PG II
UN-no:	1325
IMDG	
IMDG-class:	4.1, PG II
UN-no:	1325
ICAO/IATA	
ICAO/IATA-class:	4.1, PG II
UN-no:	1325 – AIR FREIGHT ALLOWED

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

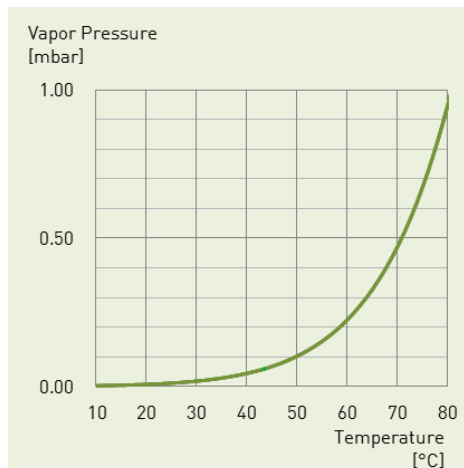
PACKAGING & STANDARD FILLING VOLUMES

Cp₂Fe.50.DOCK/10.150	50g / 150ccm cyl.
Cp₂Fe.100.DOCK/10.400	100g / 400ccm cyl.
Cp₂Fe.250.DOCK/10.600	250g / 600ccm cyl.
Cp₂Fe.450.DOCK/10.1000	450g / 1000ccm cyl.

QUALITY STANDARDS

EG Electronic Grade

VAPOR PRESSURE CURVE



APPLICATION

III/V MOCVD
Iron Dopant
Semiinsulating InP

**'DOCK/
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SEMICONDUCTORS DECISION

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PRODUCT DATASHEET

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