

# 'DOCK/ CHEMICALS

SEMICONDUCTORS DECISION



Iron dopant for MOVPE  
application

BP: 249 °C/480 °F/1013 hPa

'MO-III/V

'Cp<sub>2</sub>Fe-BISCYCLOPENTADIENYL-IRON

PRODUCT DATASHEET

# 'Cp<sub>2</sub>Fe-BISCYCLOPENTADIENYL-IRON

## IDENTIFICATION

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

'MO-III/V

## PHYSICAL PROPERTIES

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

## CHEMICAL PROPERTIES

<b>Stability:</b>	Stable
<b>State of matter:</b>	Solid

## SAFETY & TRANSPORT

<b>Fish Toxicity:</b>	LC50 (4.5 mg/L) 31d
<b>Explosion limit Vol%:</b>	n.a.
<b>Auto ignition temp. °C:</b>	n.a.
ADR/RID	
<b>ADR/RID-class:</b>	9
<b>UN-no:</b>	3077
IMDG	
<b>IMDG-class:</b>	9
<b>UN-no:</b>	3077
ICAO/IATA	
<b>ICAO/IATA-class:</b>	9
<b>UN-no:</b>	3077 – AIR FREIGHT ALLOWED

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

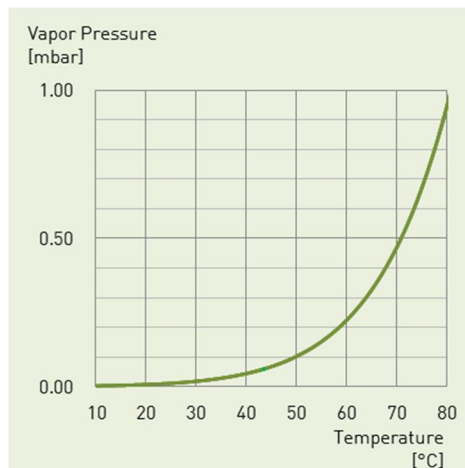
## PACKAGING & STANDARD FILLING VOLUMES

<b>Cp<sub>2</sub>Fe.50.DOCK/10.150</b>	50g / 150ccm cyl.
<b>Cp<sub>2</sub>Fe.100.DOCK/10.400</b>	100g / 400ccm cyl.
<b>Cp<sub>2</sub>Fe.250.DOCK/10.600</b>	250g / 600ccm cyl.
<b>Cp<sub>2</sub>Fe.450.DOCK/10.1000</b>	450g / 1000ccm cyl.

## QUALITY STANDARDS

**EG Electronic Grade**

## VAPOR PRESSURE CURVE



## APPLICATION

III/V MOCVD  
Iron Dopant  
Semiinsulating InP

**'DOCK/  
CHEMICALS**

SEMICONDUCTORS DECISION

## Dockweiler Chemicals GmbH

Emil-von-Behring-Strasse 76 35041 Marburg Germany  
T +49 6421 396 -380 | F +49 6421 396 -381  
sales@dockchemicals.com

**PRODUCT DATASHEET**

www.dockchemicals.com