

# 'DOCK/ CHEMICALS

SEMICONDUCTORS DECISION

# PCl<sub>3</sub>

Phosphorous precursor for  
CVD and ALD applications

'MO-CVD

BP: 75.5 °C/168 °F/1013 hPa

'PCl<sub>3</sub>-PHOSPHOROUSTRICHLORIDE

PRODUCT DATASHEET

# PCl<sub>3</sub>-PHOSPHOROUSTRICHLORIDE

## IDENTIFICATION

<b>CAS-No:</b>	7719-12-2
<b>EC-No:</b>	231-749-3
<b>Other name:</b>	-

MO-CVD

## PHYSICAL PROPERTIES

<b>Vapor pressure.:</b>	100 Torr (20 °C) 125 Torr (25 °C) 385 Torr (55 °C)
<b>Density:</b>	1.57 g/cm <sup>3</sup>
<b>Molweight:</b>	137.33 g/molc
<b>Melting point:</b>	-112 °C/-170 °F
<b>Boiling point:</b>	75.5 °C/168 °F/1013 hPa

## CHEMICAL PROPERTIES

<b>Stability:</b>	Stable under inert gas
<b>State of matter:</b>	Liquid

## SAFETY & TRANSPORT

<b>Toxicity:</b>	Toxic by inhalation
<b>Explosion limit Vol%:</b>	n.a.
<b>Auto ignition temp. °C:</b>	n.a.
ADR/RID	
<b>ADR/RID-class:</b>	6.1
<b>UN-no:</b>	1809
IMDG	
<b>IMDG -class:</b>	6.1
<b>UN-no:</b>	1809
ICAO/IATA	
<b>ICAO/IATA-class:</b>	6.1
<b>UN-no:</b>	1809 – AIR FREIGHT FORBIDDEN

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

## PACKAGING & STANDARD FILLING VOLUMES

<b>PCl<sub>3</sub>.100.DOCK/10.150</b>	100g / 150ccm cyl.
<b>PCl<sub>3</sub>.540.DOCK/10.400</b>	540g / 400ccm cyl.
<b>PCl<sub>3</sub>.840.DOCK/10.600</b>	840g / 600ccm cyl.
<b>PCl<sub>3</sub>.1400.DOCK/10.1000</b>	1400g / 1000ccm cyl.

## QUALITY STANDARDS

**EG Electronic Grade**

## VAPOR PRESSURE CURVE

n.a.

## APPLICATION

Precursor for ALD and CVD

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**PRODUCT DATASHEET**

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