

# DOCK/ CHEMICALS

SEMICONDUCTORS DECISION



Vanadium precursor for CVD application

VCl<sub>4</sub>-VANADIUMTETRACHLORIDE

PRODUCT DATASHEET

MO-CVD

BP: 154.4 °C/309.9 °F/1013 hPa

# VCl<sub>4</sub>-VANADIUMTETRACHLORIDE

## IDENTIFICATION

**CAS-No:** 7632-51-1  
**EINECS/ELINCS-No:** 231-561-1  
**Other name:**

VMO-CVD

## PHYSICAL PROPERTIES

**Vapor pressure:** 6 Torr at 20°C  
**Density:** 1.82 g/cm<sup>3</sup>  
**Molweight:** 192.57 g/mol  
**Melting point:** -28 °C / -18,4 °C  
**Boiling point:** 154,4°C / 309,92°F/1013hPa

## CHEMICAL PROPERTIES

**Stability:** Stable under recommended conditions  
**State of matter:** Liquid

## SAFETY & TRANSPORT

**Toxicity:** n.a.  
**Explosion limit Vol%:** n.a.  
**Auto ignition temp. °C:** n.a.  
**ADR/RID**  
**ADR/RID-class:** 8  
**UN-no:** 2444  
**IMDG**  
**IMDG -class:** 8  
**UN-no:** 2444  
**ICAO/IATA**  
**ICAO/IATA-class:** 8  
**UN-no:** 2444 – AIRFREIGHT ALLOWED  
For further details please refer to Safety Data Sheet (SDS)

## PACKAGING & STANDARD FILLING VOLUMES

**VCl<sub>4</sub>.100.DOCK/10.150** 100g / 150ccm cyl.  
**VCl<sub>4</sub>.200.DOCK/10.400** 200g / 400ccm cyl.  
**VCl<sub>4</sub>.650.DOCK/10.400** 650g / 400ccm cyl.  
**VCl<sub>4</sub>.900.DOCK/10.600** 900g / 600ccm cyl.  
**VCl<sub>4</sub>.1600.DOCK/10.1000** 1600g / 1000ccm cyl.  
**VCl<sub>4</sub>.4900.DOCK/10.3000** 4900g / 3000ccm cyl.

## QUALITY STANDARDS

**EG Electronic Grade**

## VAPOR PRESSURE CURVE

## APPLICATION

Deposition of Vanadium containing layers

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**PRODUCT DATASHEET**

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