

DOCK/ CHEMICALS

SEMICONDUCTORS DECISION



Aluminum precursor for CVD and HVPE

MO-CVD

MP: 180 °C / 356 °F (1013 hPa)

AlCl₃- ALUMINUM TRICHLORIDE

PRODUCT DATASHEET

AlCl₃- ALUMINUM TRICHLORIDE

IDENTIFICATION

| | |
|--------------------|------------------------|
| CAS-No: | 7446-70-0 |
| EC-No: | 231-208-1 |
| Other name: | Aluminum(III) chloride |

MO-CVD

PHYSICAL PROPERTIES

| | |
|------------------------|-------------------------------------|
| Vapor pressure: | 133.3 Pa (99 °C); 13.3 kPa (151 °C) |
| Density: | 2.48 g/cm ³ |
| Molweight: | 133.3 g/mol |
| Melting point: | 180 °C / 356 °F (sublimes) |
| Boiling point: | n.a. |

CHEMICAL PROPERTIES

| | |
|-------------------------|------------------------|
| Stability: | Stable under inert gas |
| State of matter: | Solid |

SAFETY & TRANSPORT

| | |
|--------------------------------|----------------------------------|
| Toxicity: | Corrosive |
| Explosion limit Vol%: | n.a. |
| Auto ignition temp. °C: | n.a. |
| ADR/RID | |
| ADR/RID-class: | 8 |
| UN-no: | 1726, PG II |
| IMDG | |
| IMDG -class: | 8 |
| UN-no: | 1726, PG II |
| ICAO/IATA | |
| ICAO/IATA-class: | 8 |
| UN-no: | 1726, PG II – AIRFREIGHT ALLOWED |

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

PACKAGING & STANDARD FILLING VOLUMES

| | |
|---|----------------------|
| AlCl₃.100.DOCK/10.150 | 100g / 150ccm cyl. |
| AlCl₃.200.DOCK/10.400 | 200g / 400ccm cyl. |
| AlCl₃.500.DOCK/10.400 | 500g / 400ccm cyl. |
| AlCl₃.1500.DOCK/10.1000 | 1500g / 1000ccm cyl |
| AlCl₃.4000.DOCK/10.3000 | 4000g / 3000ccm cyl. |

QUALITY STANDARDS

EG Electronic Grade

VAPOR PRESSURE CURVE

n.a.

APPLICATION

HVPE and CVD

**DOCK/
CHEMICALS**

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PRODUCT DATASHEET

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