

'DOCK/ CHEMICALS

SEMICONDUCTORS DECISION



Standard Aluminum precursor for
MOVPE

'MO-III/V

BP: 127 °C/261 °F/1013 hPa

'TMAI - TRIMETHYLALUMINUM

PRODUCT DATASHEET

'TMAL - TRIMETHYLALUMINUM

IDENTIFICATION

CAS-No:	75-24-1
EC-No:	200-853-0
Other name:	-

'MO-III/V

PHYSICAL PROPERTIES

Vapor pressure equat.:	$\lg p(\text{torr}) = 8.224 - 2134.83/T(\text{K})$
Density:	0.752 g/cm ³
Molweight:	72.1 g/mol
Melting point:	15.3 °C/59 °F
Boiling point:	127 °C/261 °F/1013 mbar

CHEMICAL PROPERTIES

Stability:	Stable under inert gas
State of matter:	Liquid

SAFETY & TRANSPORT

Toxicity:	n.a.
Explosion limit Vol%:	pyrophoric
Auto ignition temp. °C:	pyrophoric
ADR/RID	
ADR/RID-class:	4.2
UN-no:	3394
IMDG	
IMDG-class:	4.2
UN-no:	3394
ICAO/IATA	
ICAO/IATA-class:	4.2
UN-no:	3394 - AIR FREIGHT FORBIDDEN

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

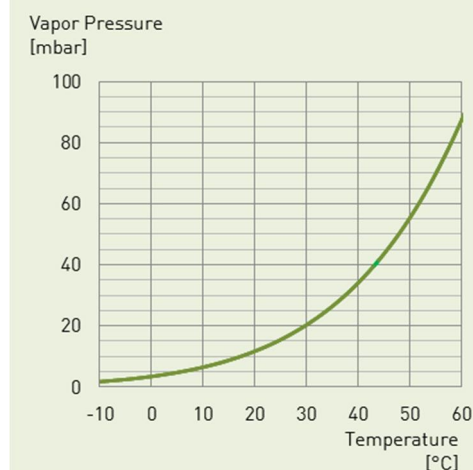
PACKAGING & STANDARD FILLING VOLUMES

TMAL.100.DOCK/10.150	100g / 150ccm cyl.
TMAL.230.DOCK/10.400	230g / 400ccm cyl.
TMAL.380.DOCK/10.600	380g / 600ccm cyl.
TMAL.600.DOCK/10.1000	600g / 1000ccm cyl.
TMAL.2000.DOCK/10.3000	2000g / 3000ccm cyl.

QUALITY STANDARDS

OEG	Opto Electronic Grade
EG	Electronic Grade
ALD	Atomic Layer Deposition Grade

VAPOR PRESSURE CURVE



APPLICATION

III/V MOCVD

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PRODUCT DATASHEET

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