

# TDMACpZr

## TRIS(DIMETHYLAMIDO)(CYCLOPENTADIENYL)ZIRCONIUM

### Physical Properties

|                        |                                                                                    |
|------------------------|------------------------------------------------------------------------------------|
| Vapor pressure equat.: | $\ln(p(\text{Pa})) = 23.23809 - 6799.72/T(\text{K})$ for $T = 0-100^\circ\text{C}$ |
| Density:               | 1.26 g/cm <sup>3</sup>                                                             |
| Molweight:             | 287.54 g/mol                                                                       |
| Melting point:         | <0 °C                                                                              |
| Boiling point:         | 94 °C / 201 °F (2.19 mbar)                                                         |
| Sublimation point:     |                                                                                    |

### Chemical Properties

|                  |                                             |
|------------------|---------------------------------------------|
| Stability:       | Stable under recommended storage conditions |
| State of matter: | Liquid                                      |

### Safety & Transport

|                        |                           |
|------------------------|---------------------------|
| Toxicity:              | n.a.                      |
| Thermal decomposition: |                           |
| ADR/RID-class:         | 4.3                       |
| UN-no:                 | 3399                      |
| IMDG-class:            | 4,3                       |
| UN-no:                 | 3399                      |
| ICAO/IATA-class:       | 4,3                       |
| UN-no:                 | 3399 – AIRFREIGHT ALLOWED |

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

### Packaging & Standard Filling Volumes

|                            |                     |
|----------------------------|---------------------|
| TDMACpZr.100.DOCK/10.150   | 100g / 150ccm cyl.  |
| TDMACpZr.450.DOCK/10.400   | 450g / 400ccm cyl.  |
| TDMACpZr.650.DOCK/10.600   | 650g / 600ccm cyl.  |
| TDMACpZr.1100.DOCK/10.1000 | 1100g / 1000ccm cyl |
| TDMACpZr.3400.DOCK/10.3000 | 3400g / 3000ccm cyl |

### Product Description

|                    |                                                   |
|--------------------|---------------------------------------------------|
| Name:              | TRIS(DIMETHYLAMIDO)(CYCLOPENTADIENYL)ZIRCONIUM    |
| CAS-Number:        | 33271-88-4                                        |
| Element:           | Zr                                                |
| Molecular Formula: | C <sub>11</sub> H <sub>23</sub> N <sub>3</sub> Zr |

### Quality Standards

EG Electronic Grade

### Application

ALD and CVD precursor

### Vapor Pressure

