

# technical bulletin

## Electronic Grade Metal Amides

Metal amides are precursors for oxide and nitride deposition by MOCVD and ALD

TRIS (DIMETHYLAMINO) ALUMINIUM (TDMAA)	$[\text{Al}(\text{NMe}_2)_3]_2$ CAS 32093-39-3 Pale Yellow solid, mp 82°C Vapour pressure 0.1 Torr at 85°C
TETRAKIS(DIETHYLAMINO) HAFNIUM (TDEAH)	$\text{Hf}(\text{NEt}_2)_4$ CAS 19962-12-0 Yellow liquid, density 1.22 Vapour pressure 0.1 Torr at 120°C
TETRAKIS(DIMETHYLAMINO) HAFNIUM (TDMAH)	$[\text{Hf}(\text{NMe}_2)_4]_2$ CAS 19962-11-9 Pale Yellow solid, mp 30°C liquid density 1.40 Vapour pressure 0.1 Torr at 60°C
TETRAKIS(DIETHYLAMINO) TITANIUM(TDEAT)	$\text{Ti}(\text{NEt}_2)_4$ CAS 4419-47-0 Orange liquid, density 0.93 Vapour pressure 0.1 Torr at 85°C 1 Torr at 120°C
TETRAKIS(DIMETHYLAMINO) TITANIUM (TDMAT)	$\text{Ti}(\text{NMe}_2)_4$ CAS 3275-24-9 Yellow liquid, density 0.96 Vapour pressure 0.1 Torr at 25°C 1 Torr at 60°, 5 Torr at 85°C
TRIS (DIMETHYLAMINO) SILANE	$(\text{Me}_2\text{N})_3\text{SiH}$ CAS 15112-89-7 Colourless liquid, density 0.84 Vapour pressure 4 Torr at 16°C
TETRAKIS(ETHYLMETHYL) HAFNIUM (TEMAH)	$\text{Hf}(\text{NEMe})_4$ CAS 352353-01-4 Yellow liquid, density Vapour pressure 0.1 mmHg at 79°C
TETRAKIS(DIMETHYLAMINO) SILANE (TDMAS)	$\text{Si}(\text{NMe}_2)_4$ CAS 1624-01-7 Colourless liquid, density 0.88 Boiling point 196°C