



KJC-MOCVD-75

Last modified : 2011.8.1

Ta(NtBu)(NEtMe)₃

Tantalum t-Butylimide tris(ethylmethanimide)
Tert-Butylimino tris(ethylmethanimino)tantalum
TBTEMT

Chemical formula	Ta[NC(CH ₃) ₃][N(C ₂ H ₅)(CH ₃) ₂] ₃		
CAS No.	[511292-99-2]	Formula weight	426.37
Physical form	Pale yellow liquid		
Density	1.32(g/ml)		
Degree of association	1 (in benzene solution)		
Solubility	miscible with toluene, hexane and octane		
Air and moisture sensitive			
Typical impurities (ppm)	Na <1	K <1	Mg <1 Ca <1 Cr <1 Fe <1 Cu <1 Ni <1
Vapor pressure (as monomer)			

ca.70°C/13.3Pa

Clausius-Clapeyron equation

$$\log_{10} P = - \frac{3233}{T} + 10.54$$

 $P: \text{Pa} \quad T: \text{K}$ 