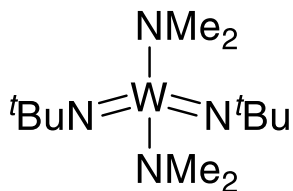


Catalog # 74-1225 Bis(t-butylimido)bis(dimethylamino)tungsten(VI), min. 97% BTBMW



## Thermal Behavior:

- Boiling point 60°C/0.05 Torr [1]
- Vapor pressure: 0.037 Torr/30 °C [1]

## Technical Notes:

1. ALD/CVD precursor for tungsten thin film deposition

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
WN <sub>x</sub>	ALD	30°C	0.34 Torr	NH <sub>3</sub>	250-350°C	1-2
	CVD	30°C	0.75 Torr	NH <sub>3</sub>	500-800°C	3
	PEALD	110°C		<sup>PL</sup> N <sub>2</sub> , <sup>PL</sup> H <sub>2</sub> /N <sub>2</sub> , <sup>PL</sup> NH <sub>3</sub>	100-400°C	4
WO <sub>3</sub>	ALD	80°C	0.03 Torr	H <sub>2</sub> O	300-350°C	5
	PELD	50°C		<sup>PL</sup> O <sub>2</sub>	100-400°C	6
WS <sub>2</sub>	ALD	80°C	300 Torr	H <sub>2</sub> S	300°C	7-10
	PEALD	50°C	0.03 Torr	<sup>PL</sup> H <sub>2</sub> S, <sup>PL</sup> H <sub>2</sub> /H <sub>2</sub> S	300°C	
WC <sub>x</sub>	PEALD	30°C	-	<sup>PL</sup> H <sub>2</sub> /N <sub>2</sub>	225-325°C	11
Co(W)	CVD	35°C	3.0 Torr	Co(AMD) <sub>2</sub> , NH <sub>3</sub>	350-400°C	12
	ALD		0.3 Torr		375°C	
LaW <sub>x</sub> O <sub>y</sub>	ALD	60°C	3.0 Torr	La(thd) <sub>3</sub> , H <sub>2</sub> O, O <sub>3</sub>	250-375°C	13
CuWO <sub>4</sub>	ALD	75°C		[Cu(sBu-amd)] <sub>2</sub> , O <sub>3</sub>	550°C	14
WN <sub>x</sub> C <sub>y</sub>	RPALD	90°C	1 Torr	<sup>PL</sup> H <sub>2</sub>	200-400°C	15

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