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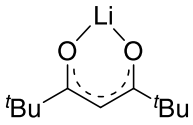
Catalog # 03-5001 2,2,6,6-Tetramethyl-3,5-heptanedionato lithium, 98+% [Li(TMHD)]



Thermal Behavior:

- Melting point 265-268°C
- Sublimation 175-200°C [1, 2]
- TGA data and diagram are available in [1, 2]

Technical Notes:

1. Precursor and dopant used for lithium thin film deposition

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Li_2CO_3	ALD	175-200°C	2.25 Torr	O_3	185-300°C	2
LiF	ALD	180°C	3.75 Torr	TiF_4	250-350°C	3
$Li_xMn_2O_4$	ALD	-	-	$Mn(thd)_3$, O_3	225°C	4
LiTPA	ALD	175°C	3.75 Torr	TPA	200-280°C	5
$Li_7La_3Zr_2O_{12}$	LA-CVD	80W CO_2-laser	3.75 Torr	$La(acac)_3$, $Zr(acac)_2$, O_2	600-800°C	6
Li:Na-Al-O	LA-CVD	225°C	6 Torr	Na(thd), $Al(acac)_3$, O_2	830-950°C	7

References:

1. *J. Electrochem. Soc.* **2012**, *159*, A259.
2. *J. Mater. Chem.* **2009**, *19*, 8767.
3. *Chem. Vap. Deposition* **2013**, *19*, 111.
4. *J. Phys. Chem. C*, **2014**, *118*, 1258.
5. *Nano Lett.* **2016**, *16*, 1276.
6. *J. Electrochem. Soc.* **2017**, *164*, A6131.
7. *Ceram. Int.* **2017**, *43*, 1278.