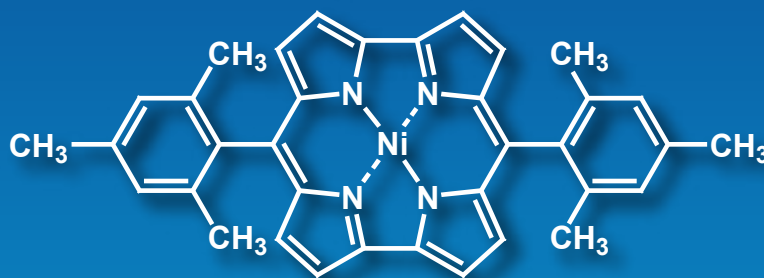


New

MATERIALS



Air-Stable Antiaromatic Nickel(II) Norcorrole Complex



Ni(II) *meso*-Dimesitylnorcorrole
50mg / 200mg
[N1236]

Advantages

- Air-stable 16 π -electronic porphyrin analogue showing antiaromaticity
- Narrow HOMO-LUMO gap (1.51 eV) and multi-electron storage capacity peculiar to antiaromatics

Applications

Used as an active material for lithium-metal batteries and lithium-free batteries

H. Shinokubo *et. al.*, *Angew. Chem. Int. Ed.* **2014**, 53, 3096.
<https://doi.org/10.1002/anie.201310374>

Exhibits aromaticity by forming stacked norcorrole dimer

H. Shinokubo *et. al.*, *Nat. Commun.* **2019**, 10, 3576.
<https://doi.org/10.1038/s41467-019-11467-4>

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