

Organic Nano Electronic (ONE=I) Materials for those who understand quality

Technical Data Sheet

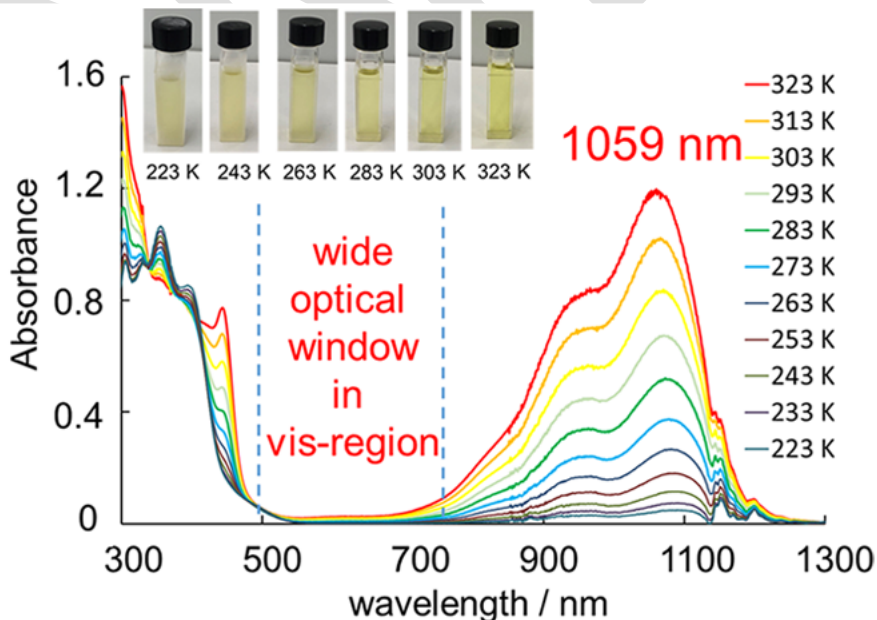
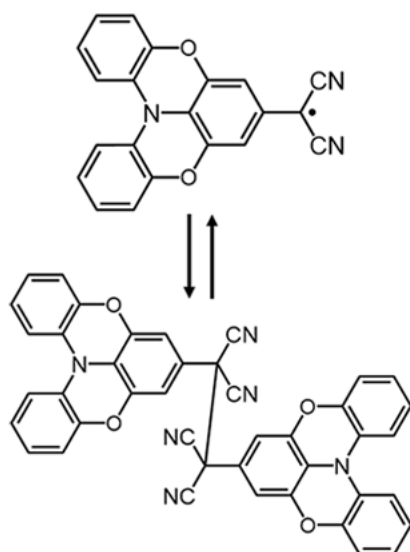
1M Material:

ODP* free radical, NIR1059, custom made for laboratory research

Application:

Colorless Near-Infrared Thermochromic Dye

Chemical Structure:



Appearance:

White to beige solid

Solubility:

Soluble in DCM, chloroform, toluene, and other selected solvents

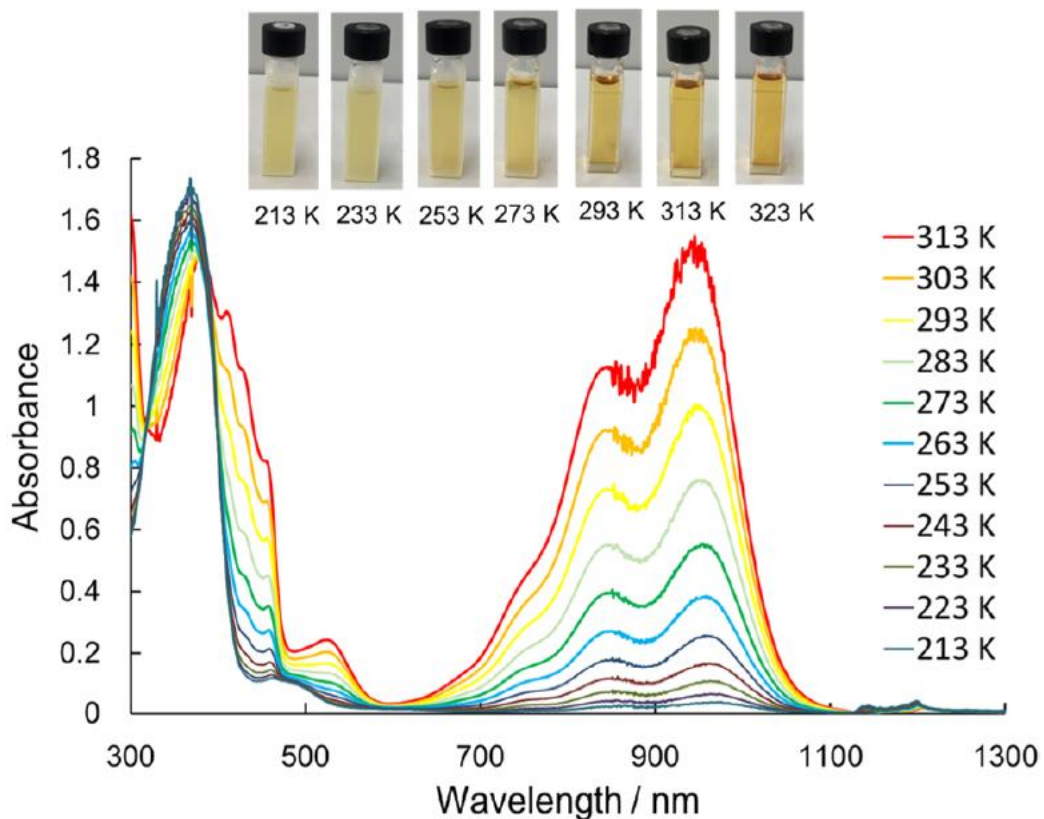
Assay:

98+% (NMR of precursor)

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Reference data:

<https://doi.org/10.1021/acsmaterialslett.9b00049>



Remark: the ODP radical molecule (dye) shows almost no perceptible color change to the naked eye and remains highly transparent over all temperature ranges, whereas the intensity of the NIR absorption drastically changes, furthermore, it maintains its absorption properties in a polycarbonate matrix and high stability.

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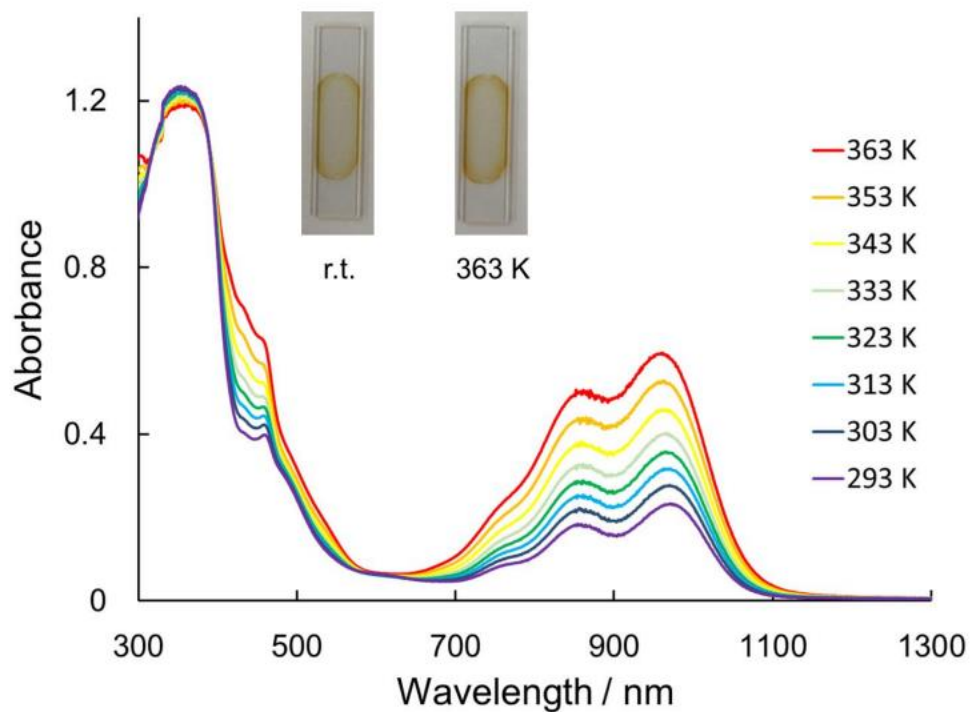


Figure Temperature dependence of the absorption spectra of **ODP·** dispersed in the polycarbonate matrix (5 wt%).

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