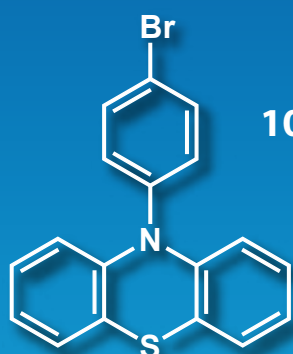
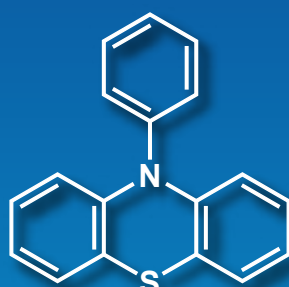


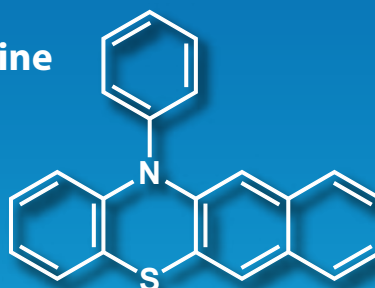
Phenylphenothiazine (PTH) Derivatives



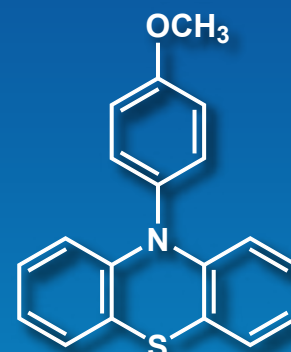
10-(4-Bromophenyl)-phenothiazine
1g
[B5374]



10-Phenylphenothiazine
1g / 5g
[P2470]



12-Phenyl-12H-benzo[b]phenothiazine
200mg / 1g
New [P3081]



10-(4-Methoxyphenyl)-phenothiazine
1g / 5g
New [M3639]

Phenylphenothiazine (PTH) is one of the key components in organic semiconductors, that serves as both a hole transporting material for solar cells¹⁾ and an organic electroluminescent material.²⁾ Additionally, it has attracted attention as an organic photocatalyst³⁾ and a catalyst for organic atom transfer radical polymerization (O-ATRP).⁴⁾

- References 1) R. Grisorio, A. Abate, *et al.*, *ACS Energy Lett.* **2017**, *5*, 1029. <https://doi.org/10.1021/acsenenergylett.7b00054>
2) J. K. Salunke, P. P. Wadgaonkar, *et al.*, *J. Mater. Chem. C* **2016**, *4*, 1009. <https://doi.org/10.1039/C5TC03690A>
3) E. H. Discekici, J. R. de Alaniz, *et al.*, *Chem. Commun.* **2015**, *51*, 11705. <https://doi.org/10.1039/C5CC04677G>
4) X. Pan, K. Matyjaszewski, *et al.*, *ACS Macro Lett.* **2015**, *4*, 192. <https://doi.org/10.1021/mz500834g>

Related Products

We offer a wide range of phenothiazine derivatives for the synthesis of PTHs.

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2-Acetylphenothiazine	5g / 25g [A2815]	2-Methoxyphenothiazine	25g [M0822]
1-Azaphenothiazine	200mg / 1g [A2862]	2-Cyanophenothiazine	5g / 25g [P2308]
2-Chlorophenothiazine	25g / 500g [C0248]	2-(Trifluoromethyl)phenothiazine	25g [T1407]
2-Methylthiophenothiazine	25g [M1387]	New 12H-benzo[b]phenothiazine	1g / 5g [B6562]

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