# Benzo[2,3]phenanthro[4,5-bcd]thiophene

**Other names:** Benzo[b]phenanthro[4,5-bcd]thiophene
**Inchi:** InChI=1S/C18H10S/c1-2-6-14-12(4-1)10-13-9-8-11-5-3-7-15-16(11)17(13)18(14)19-15/h
**InchiKey:** SVXCMFMVRIKHHD-UHFFFAOYSA-N
**Formula:** C18H10S
**SMILES:** c1ccc2c(c1)cc1ccc3cccc4sc2c1c34
**Mol. weight [g/mol]:** 258.34

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| log10ws | -7.86 | | Crippen Method |
| logp | 5.799 | | Crippen Method |
| mcvol | 187.830 | ml/mol | McGowan Method |
| rinpol | 443.30 | | NIST Webbook |
| rinpol | 443.74 | | NIST Webbook |
| rinpol | 443.29 | | NIST Webbook |
| rinpol | 436.00 | | NIST Webbook |
| rinpol | 443.30 | | NIST Webbook |
| rinpol | 436.00 | | NIST Webbook |
| rinpol | 436.00 | | NIST Webbook |
| rinpol | 434.70 | | NIST Webbook |
| rinpol | 435.60 | | NIST Webbook |

## Sources

**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=R21126&Units=SI

## Legend

| | |
|---|---|
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **rinpol:** | Non-polar retention indices |

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