# Diazene, bis[4-(pentyloxy)phenyl]-, 1-oxide

| | |
|---|---|
| **Other names:** | 4,4'-Bis(pentyloxy)azoxybenzene |
| | 4,4'-di-n-Amyloxyazoxybenzene |
| | Azoxy-bis-(p-n-pentyloxybenzene) |
| **Inchi:** | InChI=1S/C22H30N2O3/c1-3-5-7-17-26-21-13-9-19(10-14-21)23-24(25)20-11-15-22(16-1 |
| **InchiKey:** | KJMATSUHPOPLMT-UHFFFAOYSA-N |
| **Formula:** | C22H30N2O3 |
| **SMILES:** | CCCCCOc1ccc(N=[N+]([O-])c2ccc(OCCCCC)cc2)cc1 |
| **Mol. weight [g/mol]:** | 370.49 |
| **CAS:** | 19482-05-4 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| ie | 7.63 | eV | NIST Webbook |
| log10ws | -6.99 | | Crippen Method |
| logp | 6.750 | | Crippen Method |
| mcvol | 306.590 | ml/mol | McGowan Method |
| tt | 349.00 ± 0.10 | K | NIST Webbook |

## Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C19482054&Units=SI |
| **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 |

## Legend

| | |
|---|---|
| **ie:** | Ionization energy |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |

**tt:** Triple Point Temperature