

# Phosphine, tris(3-methylphenyl)-

**Other names:**

Phosphine, tri-m-tolyl-  
Tri-m-tolylphosphine  
Tris(m-tolyl)phosphine  
Tris(3-methylphenyl)phosphine  
Tris(3-tolyl)phosphine  
Phosphorus tri-m-tolyl  
tri-(3-Methylphenyl)phosphine  
tri(3-Tolyl)phosphine

**Inchi:**

InChI=1S/C21H21P/c1-16-7-4-10-19(13-16)22(20-11-5-8-17(2)14-20)21-12-6-9-18(3)15-

**InchiKey:**

LFNXCUNDYSYVJY-UHFFFAOYSA-N

**Formula:**

C<sub>21</sub>H<sub>21</sub>P

**SMILES:**

Cc1cccc(P(c2cccc(C)c2)c2cccc(C)c2)c1

**Mol. weight [g/mol]:**

304.37

**CAS:**

6224-63-1

## Physical Properties

| Property code | Value   | Unit   | Source         |
|---------------|---------|--------|----------------|
| ie            | 7.68    | eV     | NIST Webbook   |
| log10ws       | -15.11  |        | Crippen Method |
| logp          | 4.370   |        | Crippen Method |
| mcvol         | 255.930 | ml/mol | McGowan Method |

## Sources

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](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=C6224631&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

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

Latest version available from:

<https://www.chemeo.com/cid/77-485-9/Phosphine-tris-3-methylphenyl.pdf>

Generated by Cheméo on 2024-04-25 07:51:59.122793061 +0000 UTC m=+16320768.043370382.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.