

# Methyltriphenylphosphonium bromide

<b>Other names:</b>	Phosphonium, methyltriphenyl-, bromide Triphenylmethylphosphonium bromide
<b>Inchi:</b>	InChI=1S/C19H18BrP/c1-21(20,17-11-5-2-6-12-17,18-13-7-3-8-14-18)19-15-9-4-10-16-1
<b>InchiKey:</b>	BKRKYEFQSANYGA-UHFFFAOYSA-N
<b>Formula:</b>	C19H18BrP
<b>SMILES:</b>	CP(Br)(c1ccccc1)(c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	357.22
<b>CAS:</b>	1779-49-3

## Physical Properties

Property code	Value	Unit	Source
log10ws	-14.64		Crippen Method
logp	4.456		Crippen Method
mcvol	249.550	ml/mol	McGowan Method

## Sources

Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Application of the Eotvos and Guggenheim empirical rules for Predicting the density and surface density of deep eutectic solvents using atomic contributions of ammonium and phosphonium based deep eutectic solvents: Measurement and artificial neural network based prediction: Methanol-Amide based transition temperature mixtures (deep eutectic analogues solvents):	<a href="https://www.doi.org/10.1016/j.tca.2013.10.017">https://www.doi.org/10.1016/j.tca.2013.10.017</a> <a href="https://www.doi.org/10.1016/j.fluid.2013.06.050">https://www.doi.org/10.1016/j.fluid.2013.06.050</a> <a href="https://www.doi.org/10.1016/j.fluid.2013.07.012">https://www.doi.org/10.1016/j.fluid.2013.07.012</a> <a href="https://www.doi.org/10.1016/j.jct.2018.12.014">https://www.doi.org/10.1016/j.jct.2018.12.014</a> <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a> <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1779493&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1779493&amp;Units=SI</a>
Oil desulfurization using deep eutectic solvents as sustainable and Monomeric Extractants for Heavy Metal Ion Extraction: Solubility and PC-SAFT Predictions: Analogues and Their Physical Properties of Ammonium and Phosphonium based Deep Eutectic Solvents: Ammonium based Artificial eutectic solvents for the synthesis and equilibrium in equilibrium Measurements for the Extraction of Purity of the Benzothiazonium Salt and the Estrogenic Deep Eutectic Fuels Using Deep Eutectic Solvents:	<a href="https://www.doi.org/10.1016/j.fluid.2018.03.018">https://www.doi.org/10.1016/j.fluid.2018.03.018</a> <a href="https://www.doi.org/10.1021/acs.jced.5b00989">https://www.doi.org/10.1021/acs.jced.5b00989</a> <a href="https://www.doi.org/10.1021/je100104v">https://www.doi.org/10.1021/je100104v</a> <a href="https://www.doi.org/10.1016/j.tca.2011.10.010">https://www.doi.org/10.1016/j.tca.2011.10.010</a> <a href="https://www.doi.org/10.1016/j.fluid.2017.03.008">https://www.doi.org/10.1016/j.fluid.2017.03.008</a> <a href="https://www.doi.org/10.1021/acs.jced.9b00413">https://www.doi.org/10.1021/acs.jced.9b00413</a> <a href="https://www.doi.org/10.1021/acs.jced.7b00832">https://www.doi.org/10.1021/acs.jced.7b00832</a>

# Legend

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

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