

# Methyltriphenylphosphonium bromide

Other names:	Phosphonium, methyltriphenyl-, bromide Triphenylmethylphosphonium bromide
Inchi:	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
InchiKey:	BKRKYEFQSANYGA-UHFFFAOYSA-N
Formula:	C19H18BrP
SMILES:	CP(Br)(c1ccccc1)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	357.22
CAS:	1779-49-3

## Physical Properties

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

## Sources

Application of the Eotvos and Guggenheim empirical rules for prediction of Ammonium and Phosphonium based Deep Eutectic Solvents Prediction using Artificial Intelligent and Group Contribution Phosphonium-Based Ionic Liquids Analogues and Their Physical Properties	<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.tca.2011.10.010">https://www.doi.org/10.1016/j.tca.2011.10.010</a> <a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a> <a href="https://www.doi.org/10.1021/je100104v">https://www.doi.org/10.1021/je100104v</a>
Polymine-olamine-based deep eutectic solvents, their synthesis and characterization	<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>
Liquid-Liquid Equilibrium Measurements for the Extraction of Pyridine and Benzofuran and Density of Deep Eutectic Solvents using McGowan Method	<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/10.1016/j.fluid.2013.06.050">https://www.doi.org/10.1016/j.fluid.2013.06.050</a> <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
Oil desulfurization using deep eutectic solvents as sustainable and green media	<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>
Crystallization of organophosphorus compounds via liquid-liquid extraction: Experimental and PC-SAFT Predictions	<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/10.1021/acs.jced.5b00989">https://www.doi.org/10.1021/acs.jced.5b00989</a>
Deep Eutectic Solvents : McGowan Method	<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>
Effect of the Type of Ammonium Salt on the Extractive Desulfurization of Petroleum using Deep Eutectic Solvents	<a href="https://www.doi.org/10.1021/acs.jced.7b00832">https://www.doi.org/10.1021/acs.jced.7b00832</a>
Preparation and characterization of ammonium and phosphonium based deep eutectic solvents	<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="https://www.doi.org/10.1016/j.fluid.2013.07.012">https://www.doi.org/10.1016/j.fluid.2013.07.012</a>
Electrical conductivity of ammonium and phosphonium based deep eutectic solvents: Measurements and artificial intelligence-based prediction:	

# Legend

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

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