

# phenyl phosphorodichloridite

**Inchi:** InChI=1S/C6H5Cl2OP/c7-10(8)9-6-4-2-1-3-5-6/h1-5H  
**InchiKey:** LXHWDUISRBUGRA-UHFFFAOYSA-N  
**Formula:** C6H5Cl2OP  
**SMILES:** ClP(Cl)Oc1ccccc1  
**Mol. weight [g/mol]:** 194.99

## Physical Properties

Property code	Value	Unit	Source
log10ws	-0.30		Crippen Method
logp	3.770		Crippen Method
mcvol	122.450	ml/mol	McGowan Method
tb	480.79	K	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
dvisc	0.0022060 ± 0.0000110	Paxs	293.27	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	0.0018350 ± 0.0000092	Paxs	303.25	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	0.0015540 ± 0.0000078	Paxs	313.20	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	0.0013380 ± 0.0000067	Paxs	323.18	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite

dvisc	$0.0011550 \pm 0.0000058$	Paxs	333.06	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	$0.0010160 \pm 0.0000051$	Paxs	343.20	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	$0.0009000 \pm 0.0000045$	Paxs	353.20	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	$0.0008000 \pm 0.0000040$	Paxs	363.18	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	$0.0007210 \pm 0.0000036$	Paxs	373.06	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	$0.0006550 \pm 0.0000033$	Paxs	383.26	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	$0.0005990 \pm 0.0000030$	Paxs	393.26	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	$0.0005420 \pm 0.0000027$	Paxs	403.66	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	$0.0005010 \pm 0.0000025$	Paxs	413.47	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
dvisc	$0.0004670 \pm 0.0000023$	Paxs	423.25	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	$101.33 \pm 0.01$	kPa	480.79	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	$1.93 \pm 0.01$	kPa	368.85	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite

pvap	2.39 ± 0.01	kPa	373.36	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	2.89 ± 0.01	kPa	377.56	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	3.49 ± 0.01	kPa	381.85	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	4.22 ± 0.01	kPa	386.24	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	5.11 ± 0.01	kPa	390.85	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	6.19 ± 0.01	kPa	395.53	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	7.04 ± 0.01	kPa	398.76	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	8.50 ± 0.01	kPa	403.60	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	10.23 ± 0.01	kPa	408.48	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	12.02 ± 0.01	kPa	412.85	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	14.44 ± 0.01	kPa	417.95	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	1.47 ± 0.01	kPa	363.25	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite

pvap	19.74 ± 0.01	kPa	427.13	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	22.69 ± 0.01	kPa	431.14	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	25.54 ± 0.01	kPa	434.75	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	29.90 ± 0.01	kPa	439.67	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	33.78 ± 0.01	kPa	443.56	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	39.36 ± 0.01	kPa	448.54	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	45.46 ± 0.01	kPa	453.36	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	52.77 ± 0.01	kPa	458.47	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	57.67 ± 0.01	kPa	461.57	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	66.28 ± 0.01	kPa	466.53	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	75.05 ± 0.01	kPa	471.06	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
pvap	88.11 ± 0.01	kPa	475.71	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite

pvap	16.67 ± 0.01	kPa	422.05	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1353.10 ± 0.50	kg/m3	293.27	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1344.20 ± 0.50	kg/m3	303.25	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1333.00 ± 0.50	kg/m3	313.20	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1320.40 ± 0.50	kg/m3	323.18	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1293.40 ± 0.50	kg/m3	333.06	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1279.70 ± 0.50	kg/m3	343.20	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1262.20 ± 0.50	kg/m3	353.20	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1247.00 ± 0.50	kg/m3	363.18	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1229.80 ± 0.50	kg/m3	373.06	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1214.10 ± 0.50	kg/m3	383.26	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1196.50 ± 0.50	kg/m3	393.26	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite

rhoI	1177.70 ± 0.50	kg/m3	403.66	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1161.20 ± 0.50	kg/m3	413.47	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite
rhoI	1143.10 ± 0.50	kg/m3	423.25	Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307I>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Density, Viscosity, and Vapor Pressure of Phenyl Dichlorophosphite:** <https://www.doi.org/10.1021/je8000427>

## Legend

**dvisc:** Dynamic viscosity  
**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**pvap:** Vapor pressure  
**rhoI:** Liquid Density  
**tb:** Normal Boiling Point Temperature

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