

# 2-Propanol, 1-chloro-, phosphate (3:1)

**Other names:**

Amgard TMCP  
Hostaflam OP 820  
Phosphoric acid, tris(2-chloro-1-methylethyl) ester  
Tris(1-chloro-2-propyl)phosphate  
Tris(2-chloro-1-methylethyl) phosphate  
Tris(2-chloroisopropyl)phosphate  
tris(1-chloro-2-propyl) phosphate  
tris(1-chloropropan-2-yl) phosphate

**Inchi:**

InChI=1S/C9H18Cl3O4P/c1-7(4-10)14-17(13,15-8(2)5-11)16-9(3)6-12/h7-9H,4-6H2,1-3H3

**InchiKey:**

KVMPUXDNESXNOH-UHFFFAOYSA-N

**Formula:**

C9H18Cl3O4P

**SMILES:**

CC(CCl)OP(=O)(OC(C)CCl)OC(C)CCl

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

327.57

**CAS:**

13674-84-5

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.91		Crippen Method
logp	4.026		Crippen Method
mcvol	218.330	ml/mol	McGowan Method
rinpol	1818.00		NIST Webbook
rinpol	1820.00		NIST Webbook
rinpol	1814.00		NIST Webbook
rinpol	1814.00		NIST Webbook
rinpol	1814.00		NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
pvap	3.50e-05	kPa	298.00	Determination of Vapor Pressures for Organophosphate Esters

# Sources

Determination of Vapor Pressures for Organophosphate Esters: McGowan Method:	<a href="https://www.doi.org/10.1021/je401026a">https://www.doi.org/10.1021/je401026a</a>
	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C13674845&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13674845&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
Crippen Method:	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pvap:</b>	Vapor pressure
<b>rinpolar:</b>	Non-polar retention indices

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