

# Zytron

<b>Other names:</b>	Phosphoramidothioic acid, (1-methylethyl)-, O-(2,4-dichlorophenyl) O-methyl ester Phosphoramidothioic acid, isopropyl-, O-(2,4-dichlorophenyl) O-methyl ester Dow 1329 DMPA (Herbicide) ENT 25647 K 22023 O-(2,4-Dichlorophenyl) O-Methyl isopropylphosphoramidothioate O-(2,4-Dichlorophenyl) O-methyl N-isopropylphosphoramidothioate DMPA Dowco 118 (1-Methylethyl)phosphoramidothioic acid O-(2,4-dichlorophenyl) O-methyl ester Isopropylphosphoramidothioic acid, O-2,4-dichlorophenyl O-methyl ester O-Methyl-O-(2,4-dichlorofenyl)ester kyseliny isopropylamidothiofosforecne OMS 115 Phenol, 2,4-dichloro-, O-ester with O-methyl isopropylphosphoramidothioate O-(2,4-dichlorophenyl) O-methyl-(1-methylethyl) phosphoramidothioate
<b>Inchi:</b>	InChI=1S/C10H14Cl2NO2PS/c1-7(2)13-16(17,14-3)15-10-5-4-8(11)6-9(10)12/h4-7H,1-3
<b>InchiKey:</b>	PJFGPJQBWSEWKX-UHFFFAOYSA-N
<b>Formula:</b>	C10H14Cl2NO2PS
<b>SMILES:</b>	COP(=S)(NC(C)C)Oc1ccc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	314.17
<b>CAS:</b>	299-85-4

## Physical Properties

Property code	Value	Unit	Source
log10ws	-0.86		Crippen Method
logp	4.241		Crippen Method
mcvol	211.010	ml/mol	McGowan Method
rinpol	1942.00		NIST Webbook
rinpol	1969.00		NIST Webbook
tf	322.39 ± 0.20	K	NIST Webbook
tf	325.00 ± 0.20	K	NIST Webbook

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	29.25	kJ/mol	321.50	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C299854&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C299854&amp;Units=SI</a>

## Legend

<b>hfust:</b>	Enthalpy of fusion at a given temperature
<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>rinpol:</b>	Non-polar retention indices
<b>tf:</b>	Normal melting (fusion) point

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