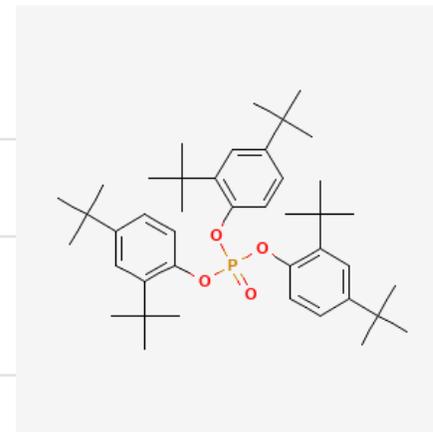


diphenyl phosphate



tris(2,4-DI-tert-butylphenyl)phosphate

Number of added carbons by group vs LogKow



If point is in a shape, chemical has either EcoTox or CompTox data or both. If point is not in a shape, it has neither EcoTox or CompTox data. Arrows indicate the di-phosphates. 2 BCFs are shown. Same shape outline = same subgroup.

ToxCast and EcoTox Data for Aryl Phosphate Esters along with LogKow and number of carbons

Abbreviation	Name	logKow from comptox (predicted average)	phenyl groups + number of carbons	ToxCast	ToxCast out of 24 most common assays	EcoTox - EC50, LC50, LOEC, NOEC for mortality only	EcoTox notes and authors	add'n info
NO ADDITIONAL GROUPS								
TPP/TPHP	triphenyl phosphate	4.38	tri+0	176/737	22/24	<1mg/L generally accepted	2053 results	
DPP, DPHP	Diphenyl phosphate	1.95	di+0	1/350	1/24	0.004mg/L NOEC zebrafish	14 results - Li and Lee	
METHYL								
CDP, CDPP	Cresyl diphenyl phosphate	mixture of isomers on comptox; UK report 4.72	tri+1 methyl	108/433	24/24	1.06 mg/L LC50 fish embryo	35 results - Wong, Du (only)	
same as CDP*	diphenyl 4-tolyl phosphate	4.61	tri+1 methyl	nd	nd	nd (same as CDP)	nd (same as CDP)	
DCPP	dicresyl phenyl phosphate	ill defined on comptox; not on graph	tri+2 methyl	nd	nd	nd	nd	
TOCP	tri-o-cresyl phosphate	5.41	tri+3 methyl	194/524	23/24	nd	nd	TCP isomer
TCP, TOCP, TMPP	Tricresyl phosphate	mixture of isomers on comptox; UK report 5.11	tri+3 methyl	95/545	23/24	0.75 mg/L LC50 zebrafish mortality	313 results - Adema, Mayer, Canton, Tsuji, van den Dikkenberg, Mayer etc.	
TmCP	tri-m-cresyl phosphate or tris(3-methylphenyl) phosphate	5.41	tri+3 methyl	28/306	12/24	nd	43 results - Wong, Garoche, Cocci, Muir genetic endpoints	TCP isomer
TpCP	tris(4-methylphenyl) phosphate or tri-p-cresyl phosphate	5.41	tri+3 methyl	nd	nd	0.75 mg/L LC50 zebrafish mortality	51 results for all, 4for mortality - sitthichaikasem and wang	TCP isomer
TXP	tris(3,5-dimethylphenyl) phosphate or trixylenyl phosphate	mixture; UK report 5.63	tri+6 methyl	64/429	24/24	0.88 mg/L LC50 mortality harpacticoid copepod	4 results - Bengtsson, Yoshioka,	
BUTYL								
DBPP	Dibutyl phenyl phosphate	4.18	mono+2 butyl	nd	nd	LOEC 0.25mg/L	23 results - Adams only	
BDPP	Butyl diphenyl phosphate	4.17	di+1 butyl	nd	nd	nd	nd	
BPDP	t-butylphenyl diphenyl phosphate	mixture = 5.12 (exp)	tri+1 butyl	154/500	23/24	LC50 mortality 0.3 mg/L daphnia	104 results	
bTPP	butylated triphenyl phosphate	not on comptox; 5.12 Biomonitoring CA	tri+1 butyl	nd	nd	nd	nd	same as BPDP
BDMEPPP	di-tert butyl phenyl phosphate	ill-defined; not on graph	tri+2 butyl	nd	nd	nd	nd	
tbTPP same as TBPP	tris(isobutylphenyl) phosphate	variable	tri+3 butyl	nd	nd	nd	nd	high BCF
TBPP same as tbTPP	Tris(4-tert-butylphenyl) phosphate	9.13	tri+3 butyl	nd	nd	nd	nd	high BCF
TDTBPP	tris(2,4-di-tert-butylphenyl) phosphate	10.5	tri+6 butyl	nd	nd	nd	nd	high BCF
ISOPROPYL								
ZIPDPDP	isopropylphenyl diphenyl phosphate or mono isopropylated triaryl phosphate (p-,m-,o- mixture)	mixture of isomers on comptox = 5.31 (exp)	tri+1 propyl	nd	nd	0.25-0.61 mg/L LC50 water flea and midge mortality	2 results - ziegenfuss LC 50 (mortality)	
mITP*	Diphenyl o-isopropylphenylphenyl phosphate	5.49	tri+1 propyl	nd	nd	nd	14 results - Wong, Loeb, Fulton, Eldefrawi, Jarema, Behl, Garoche	Phosflex IPP-1, same as ZIPDPDP but specific formulation
IPTPP*	tris(2-isopropyl phenyl) phosphate	7.6	tri+3 propyl	nd	nd	nd	nd	IPP-3
IPP-1, IPP-2, IPP-3, ITPs	Isopropylated triphenyl phosphate	mixture	tri+3 propyl	182/540	24/24	in micromoles	83 results - Jarema, Alzualde, Zhang, Behl	PIP 3:1
DIPHOSPHATES								
RBDPP, RDP	Resorcinol bis-diphenyl phosphate	6.4	hexa+0	nd	nd	nd	1 result - Waaijers EC50 (intoxication)	
BDP	bisphenol A bis(diphenyl phosphate)	7.96	hexa+3 connecting	nd	nd	nd	1 result - Waaijers EC50 (intoxication)	
tetrakis	tetrakis(2,6-dimethylphenyl)-m-phenylene biphosphate	6.89	penta+8 methyl	nd	nd	nd	nd	
LEGGY								
BEHPP	Bis(2-ethylhexyl)phenyl phosphate	7.62	mono+2 ethyl hexyl	nd	nd	nd	nd	
EHDPP, EHDP	2-ethylhexyl diphenyl phosphate	6.09	di+1 ethyl hexyl	138/546	23/24	LC50 0.15-0.79mg/L mortality for daphnia, LOEC .075mg/L fish embryo survival	146 results - Lockhart, Ziegenfuss, Adams, Jarema, Monsanto, Muir, Tang, Behl, etc.	
IDDP	isodecyl diphenyl phosphate	ill defined on CompTox; web source 5.44	di+10	130/469	24/24	LOEC 0.02mg/L daphnia	109 results - Adams, Alzualde, Zhang, Dawson	
dodecyl	dodecyl diphenyl phosphate	7.97	di+12	nd	nd	nd	nd	

* CAS numbers are not TSCA-active; data is for same chemical name

nd = no data for specific search (mortality endpoint, LC50, LD50, NOEC, LOEC)