

## Decernis List of Common Phthalates - 5Mar2024

Chemical Name	Synonym Names	CAS No.
Amyl decyl phthalate	n-Amyl n-decyl phthalate Pentyl decyl phthalate	7493-81-4
Benzyl butyl phthalate	Butyl benzyl phthalate Phthalic acid, benzyl butyl ester BBP	85-68-7
Butyl cyclohexyl phthalate	BCP	84-64-0
Butyl decyl phthalate	n-Butyl n-decyl phthalate BDP	89-19-0
Butyl octyl phthalate	n-Butyl n-octyl phthalate BOP	84-78-6
Butyl phthalyl butyl glycolate	Butyl carboxymethyl phthalate BPBG	85-70-1
Castor oil phthalate, hydrogenated		none
Castor oil phthalate with adipic acid and fumaric acid-diethylene glycol		68650-73-7
Decyl octyl phthalate	Octyldecyl phthalate n-Octyl n-decyl phthalate ODP	119-07-3
Di(2-ethylhexyl) hexahydrophthalate	Bis(2-ethylhexyl) cyclohexane-1,2- dicarboxylate	84-71-9

	Di(2-ethylhexyl) phthalate	
	Phthalic acid, bis(2-ethylhexyl) ester	
	DEHP	
Di-2-ethylhexyl-phthalate	DOP	117-81-7
Di(2-methoxyethyl) phthalate	DMEP	117-82-8
Di(2-propylheptyl) phthalate	DPHP	53306-54-0
	Di(heptyl, nonyl, undecyl) phthalate	
	Dialkyl phthalate (C7-11) branched	
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	and linear phthalate ester	
	DHNUP	68515-42-4
Diallyl phthalate	DAP	131-17-9
Dibasic lead phthalate		69011-06-9
Di(butoxyethyl) phthalate	Bis(2-n-butoxyethyl) phthalate	117-83-9
	Di-n-butyl phthalate	
	Phthalic acid, dibutyl ester	
Dibutyl phthalate	DBP	84-74-2
	DCHP	
Dicyclohexyl phthalate	DCP	84-61-7
	Di-n-decyl phthalate	
Didecyl phthalate	DnDP	84-77-5
Diethyl phthalate	DEP	84-66-2
	Di-n-hexyl phthalate	
	DHP	
Dihexyl phthalate	DNHP	84-75-3
Dihydroabietyl phthalate		26760-71-4
	DIBP	
Diisobutyl phthalate	1,2-Bis(2-methylpropyl)benzene-1,2-dicarboxylate	84-69-5

	DIDP	
	Phthalic acid, diesters with primary, saturated C9-C11 alcohols more than 90% C10	26761-40-0 68515-49-1
Diisodecyl phthalate		
	1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich	
	DIHP	71888-89-6
Diisoheptyl phthalate	DIHpP	41451-28-9
Diisohexyl phthalate	DIHxP	146-50-9
		28553-12-0
Diisononyl phthalate	DINP	68515-48-0
Diisooctyl phthalate	DIOP	27554-26-3
Diisopentyl phthalate	DIPP	605-50-5
	Undecyl dodecyl phthalate	
Diisotridecyl phthalate	DITDP	68515-47-9
Diisoundecyl phthalate	DIUP	85507-79-5
Dimethylcyclohexyl hydrogen phthalate	Dimethyl cyclohexyl phthalate	1322-94-7
	Dimethyl orthophthalate	
	DMOP	
Dimethyl phthalate	DMP	131-11-3
	Di(n-octyl) phthalate	
	1,2-Benzenedicarboxylic acid, dioctyl ester	
	Dioctyl phthalate	
Di-n-octyl phthalate	DnOP	117-84-0
Di-n-pentyl phthalate	DNPP	131-18-0
Di-n-propyl phthalate	DPP	131-16-8
Dipentyl phthalate, branched and linear	DPP	
	3,4-bis(3-methylbutyl) phthalate	84777-06-0
Diphenylguanidine phthalate		17573-13-6

Diphenyl phthalate		84-62-8
Ditridecyl phthalate	DTDP	119-06-2
Diundecyl phthalate	DUP	3648-20-2
Dodecyl phthalate	Dodecyl hydrogen phthalate	21577-80-0
	Ethyl carboxymethyl phthalate	
Ethyl phthalyl ethyl glycolate	EPEG	84-72-0
	Methyl phthalyl ethyl glycolate	
Ethoxycarbonylmethyl methyl phthalate	1,2-Benzenedicarboxylic acid, 1-(2-ethoxy-2-oxoethyl) 2-methyl ester	85-71-2

Phthalates substances listed in EU  
SEC(2004) 1372 Annex 3 Tables 1, 2,  
and 3.

**a - 25 phthalates that industry abandoned in food contact, which FDA removed from r**

**b - phthalates which US FDA has requested more information**

**c - phthalates which are Prior Sanctioned under US FDA listed in 21 CFR, Part 181**

**d - phthalates listed in EU Regulation 10/2011 and amendments**

Structural formula	Molecular Formula	Molecular Weight (g/mol)	Footnotes
	C23H36O4	376.53	a
CH3(CH2)3O OCC6H4COOCH2C6H5	C19H20O4	312.36	a, d
CH3(CH2)3O OCC6H4COOC6H11	C18H24O4	304.38	
CH3(CH2)3O OCC6H4COO(CH2)9CH3	C22H34O4	362.50	a
CH3(CH2)3O OCC6H4COO(CH2)7CH3	C20H30O4	334.40	a
CH3(CH2)3COOCH2C00C6H4COO(CH2)3CH3	C18H24O4	336.38	a, b, c
[C8H4O3.C6H10O4.C4H10O3.C4H4O4.Unspecified]x			a
CH3(CH2)7O OCC6H4COO(CH2)9CH3	C26H30O4	418.61	a
	C24H44O4	396.60	a

C6H4[COOCH2CH(C2H5)(CH2)3CH3]2	C24H38O4	390.56	<b>b, c, d</b>
C6H4[COO(CH2)2OCH3]2	C14H18O4	282.29	
C6H4[COOCH2CH(CH2CH2CH3)(CH2)4CH3]2	C28H46O4	446.66	
	C22H34O4-		
C22H34O4-C30H50O4	C30H50O4	362 - 474	
C6H4(COOCH2CH=CH2)2	C14H14O4	246.26	
C6H4(COO)2Pb	C8H4O4Pb	817.71	
C6H4[COOCH2CH2O(CH2)3CH3]2	C20H30O4	366.45	<b>a</b>
C6H4[COO(CH2)3CH3]2	C16H18O4	278.34	<b>a, d</b>
C6H4[COOC6H11]2	C20H26O4	330.42	<b>b</b>
C6H4[COOC10H21]2	C28H46O4	446.66	<b>a</b>
C6H4[COOC2H5]2	C12H14O4	222.24	<b>a, b, c</b>
C6H4[COO(CH2)5CH3]2	C20H30O4	334.45	<b>a</b>
	C28H40O4(-2)		<b>a</b>
C6H4[COOCH2CH(CH3)2]2	C16H22O4	278.34	<b>a, d</b>

$C_6H_4[COO(CH_2)_7CH(CH_3)_2]_2$	$C_{28}H_{46}O_4$	446.66	<b>b, d</b>
$C_6H_4[COO(CH_2)_4CH(CH_3)_2]_2$	$C_{22}H_{34}O_4$	362.50	
$C_6H_4[COO(CH_2)_3CH(CH_3)_2]_2$	$C_{20}H_{30}O_4$	334.45	
$C_6H_4[COO(CH_2)_6CH(CH_3)_2]_2$	$C_{26}H_{42}O_4$	418.61	<b>b, d</b>
$C_6H_4[COO(CH_2)_5CH(CH_3)_2]_2$	$C_{24}H_{38}O_4$	390.56	<b>a, b, c</b>
$C_6H_4[COO(CH_2)_2CH(CH_3)_2]_2$	$C_{18}H_{26}O_4$	306.40	
$C_6H_4[COO(CH_2)_{10}CH(CH_3)_2]_2$	$C_{34}H_{58}O_4$	530.82	
$C_6H_4[COO(CH_2)_8CH(CH_3)_2]_2$	$C_{30}H_{50}O_4$	474.72	
$HOCOC_6H_4COOC_6H_9(CH_3)_2$	$C_{16}H_{20}O_4$	276.33	<b>a</b>
$C_6H_4(COOCH_3)_2$	$C_{10}H_{10}O_4$	194.18	<b>a</b>
$C_6H_4[COO(CH_2)_7CH_3]_2$	$C_{24}H_{38}O_4$	390.56	<b>a</b>
$C_6H_4[COO(CH_2)_4CH_3]_2$	$C_{18}H_{26}O_4$	306.40	
$C_6H_4[COO(CH_2)_2CH_3]_2$	$C_{14}H_{18}O_4$	250.29	
$[(CH_3)_2CH(CH_2)_2]_2C_6H_2(COO)_2$	$C_{18}H_{24}O_4(-2)$	304.40	<b>a</b>

$C_6H_4[COOC_6H_5]_2$	$C_{20}H_{14}O_4$	318.32	<b>a</b>
$C_6H_4[COO(CH_2)_{12}CH_3]_2$	$C_{32}H_{58}O_4$	530.82	
$C_6H_4[COO(CH_2)_{10}CH_3]_2$	$C_{30}H_{50}O_4$	474.72	
$HOCOC_6H_4COO(CH_2)_{11}CH_3$	$C_{20}H_{30}O_4$	334.40	<b>a</b>
$CH_3CH_2COOC_6H_4COOCH_2COOCH_2CH_3$	$C_{14}H_{16}O_6$	280.27	<b>a, b, c</b>
$CH_3COOC_6H_4COOCH_2COOCH_2CH_3$	$C_{13}H_{14}O_6$		<b>a</b>

**egulations**