

表 1 标准品信息

Table 1 Information of the standards

N o .	Compound	Abbr	CAS No.	SML / (mg/ kg)	Puri ty/ %	Concent ration in mixed solution (mg/L)	Source
1	benzophenone, 二苯酮	BP	119-61-9	0.6	99.5	6.00	ChemSe rvice
2	2,6-bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-二叔丁基-4-乙基苯酚	BHEB	4130-42-1	4.8	98.0	30.10	TCI
3	Butylated hydroxyanisole, 叔丁基-4-羟基苯甲醚	BHA	25013-16-5	30	99.5	21.12	ChemSe rvice
4	2,6-di-tert-butyl-4-methylphenol, 2,6-二叔丁基对甲苯酚	BHT	128-37-0	3	99.5	5.25	ChemSe rvice
5	2-(2'-hydroxy-5'-methyl-phenyl)benzotriazole, 2-(2'-羟基-5'-甲基苯基)苯并三唑	UV-P	2440-22-4	12	99.0	5.50	TCI
6	2-(2H-Benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol, 2-(2H-苯并三唑-2)-4,6-二(1-甲基-1-苯基乙基)苯酚	UV-234	70321-86-7	1.5	98.0	5.10	TCI
7	2-(2H-benzotriazol-2-yl)-4,6-di-tert-butylphenol, 2-(2'-羟基-3',5'-二叔丁基苯基)苯并三唑	UV-320	3846-71-7		98.0	5.60	Dr.
8	2-tert-butyl-6-(5-chloro-2H-benzotriazol-2-yl)-4-methylphenol, 2-(2'羟基-3'-特丁基-5'-甲基苯基)-5-氯苯并三唑	UV-326	3896-11-5	12	98.0	5.16	TCI
9	2,4-di-tert-	UV-32	3864-9	12	98.0	5.14	ChemSe

	butyl-6-(5-chloro-benzotriazol-2-yl)phenol, 2-(2'-羟基-3',5'-二特丁基苯基)-5-氯苯并三唑	7	9-1				rvice
10	2-(2 <i>H</i> -benzotriazol-2-yl)-4,6-di-tert-pentylphenol, 2-(2'-羟基-3',5'-二特戊基苯基)苯并三唑	UV-328	35976-55-1	98.0	5.52		TCI
11	2-(2 <i>H</i> -benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol, 2-(2'-羟基-5'-特辛基苯基)苯并三唑	UV-329	3147-75-9	98.0	5.22		TCI
12	2-(2 <i>H</i> -benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol, 2-(2'-羟基-3'-异丁基-5'叔丁基苯基)苯并三唑	UV-350	36437-3	98.0	5.50		AccuStandard
13	2,4-di-tert-butylphenol, 2,4-二叔丁基苯酚	DBP	96-76-4	97.0	2.68		TCI
14	2,4-dihydroxybenzophenone, 2,4-二羟基二苯甲酮	UV-0	131-56-6	8	98.0	2.87	TCI
15	2-hydroxy-4-methoxy-benzophenone, 2-羟基-4-甲氧基二苯甲酮	UV-9	131-57-7	8	99.0	5.56	TCI
16	2,2'-dihydroxy-4-methoxybenzophenone, 2,2'-二羟基-4-甲氧基苯甲酮	UV-24	131-53-3	8	98.0	1.10	Aldrich
17	2,4-di-tert-butylphenyl-3,5-di-tert-butyl-4-hydroxybenzoate, 3,5-二叔丁基-4-羟基苯甲酸-2,4-二叔丁基苯酯	UV-120	4221-80-1	99.0	0.10		IL
18	2,2'-methylenebis(6-(benzotriazol-2-yl)-4-tert-octylphenol, 2,2'-亚甲基双(4-叔辛基-6-苯并三唑苯酚)	UV-360	103597-45-1	99.0	5.64		Aldrich

1	2-hydroxy-4-n-octoxybenzophenone,	UV-53	1843-0	8	98.0	0.51	TCI
9	2-羟基-4-正辛氧基二苯甲酮	1	5-6				
2	2-(4,6-bis-(2,4-dimethylphenyl)-1,3,5	UV-116	2725-2	0.05	98.0	1.07	IL
0	-triazin-2-yl)-5-(octyloxy), 2-(4,6-双	4	2-6				
	(2,4-二甲基苯基)-1,3,5-三嗪-2-基)-5-						
	辛氧基酚						
2	3,5-di-tert-butyl-4-hydroxybenzoic acid	UV-29	67845-		98.0	0.05	Adamas
1	hexadecyl ester, 3,5-二叔丁基-4-羟基	08	93-6				Beta
	苯甲酸正十六酯						
2	N-(2-	UV-VS	23979-	30	99.0	27.70	IL
2	ethoxyphenyl)-N'-(4-ethylphenyl)-ethly	U	66-8				
	ene diamide, N-(2-乙氧基苯基)-N'-(4-						
	乙基苯基)-乙二酰胺						
2	2,2'-ethylidenebis[4,6-di-tert-butylphen	Irganox	35958-	5	98.0	0.10	IL
3	ol], 2,2-亚乙基-二(4,6-二-叔-丁基苯	129	30-6				
	酚)						
2	4,4'-thio-bis(6-tert-butyl-m-methyl	Irganox	96-69-	0.48	98.0	0.54	TCI
4	phenol), 4,4'-硫代双(6-叔丁基-3-甲基	300	5				
	苯酚)						
2	1,3,5-trimethyl-2,4,6	Irganox	1709-7		95.0	5.62	TCI
5	-tris(3,5-di-t-butyl-4-hydroxybenzyl)-be	330	0-2				
	nzen, 1,3,5-三甲基-2,4,6-三(3,5-二叔						
	丁基-4-羟苄)苯						
2	2,2'-methylenebis(4-ethyl-6-tert-	Irganox	88-24-	13	98.0	0.05	TCI
6	butylphenol), 2,2'-亚甲基双(4-乙基-6-	425	4				
	叔丁基苯酚)						
2	2,4-bis(octylthio)-6-(4-hydroxy-3,5-di-t	Irganox	991-84	30	98.0	0.53	IL
7	ert-butylanilino)-1,3,5-triazine, 4-[(4,6-	565	-4				
	二辛硫基-1,3,5-三嗪-2-基)氨基]-2,6-						

二(1,1-甲基乙基)苯酚							
2	Bis[ethyl-3-(3,5-di-t-butyl-4-hydroxy)pr	Irganox	70331-		98.0	1.14	AccuSta
8	opionate]-2,2'-bisoxalylamide, 2'2-草酰	697	94-1				ndard
	胺基-双-[乙基-3-(3,5-二叔丁基-4-羟基						
	基)]丙酸酯						
2	pentaerythritol tetrakys	Irganox	6683-1		95.0	10.56	TCI
9	3-(3,5-ditert-butyl-4-hydroxyphenyl)	1010	9-8				
	propionate, 四[β- (3, 5-二叔丁基-4-						
	羟基苯基) 丙酸]季戊四醇酯						
3	1,2-di[-(3,5-di-tert-	Irganox	32687-	15	98.0	2.12	AccuSta
0	butyl-4-hydroxyp-henyl)propionyl]hydr	1024	78-8				ndard
	azine, 1,2-双[β-(3,5-二叔丁基-4-羟基						
	苯基)丙酰]肼						
3	3,5-bis(1,1-dimethyl	Irganox	41484-	2.4	98.0	0.56	TCI
1	ethyl)-4-hydroxybenzenepropanoic acid	1035	35-9				
	thiodi-2,1-ethanediyl ester, 3,5-双(1,1-						
	二甲基乙基)-4-羟基苯丙酸硫代二						
	-2,1-乙二醇酯						
3	3,3'-bis(3,5-di-tert-	Antioxi	23128-	45	98.0	1.05	IL
2	butyl-4-hydroxyphenyl)-N,N'-	dant	74-7				
	hexamethylenedipropionamide, N,N'-	1098					
	双-(3-(3,5-二叔丁基-4-羟基苯基)丙酰						
	基)己二胺						
3	4,6-bis (octylthiomethyl)-o-cresol, 4,6-	Antioxi	110553	24	95.0	2.52	IL
3	二(辛硫甲基)邻甲酚	dant	-27-0				
		1520					
3	1,3,5-tris(4-tert-butyl-3	Irganox	40601-	6	97.1	0.56	Aldrich
4	hydroxy-2,6-dimethylbenzyl)	1790	76-1				
	-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione						

	, 1,3,5-三(4-叔丁基-3-羟基-2,6-二甲基苄基)-1,3,5-三嗪-2,4,6-(1 <i>H</i> ,3 <i>H</i> ,5 <i>H</i>)-三酮						
35	2,2'-methylenebis(6-tert-butyl-4-methylphenol), 2,2'-亚甲基-双(4-甲基-6-叔丁基苯酚)	Antioxidant 2246	119-47-1	13	98.0	0.10	TCI
36	2-propenoic acid, 2-(1,1-dimethylethyl)-6-[[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]methyl]-4-methylphenylester, 2-(2-羟基-3-叔丁基-5-甲基苄基)-4-甲基-6-叔丁基苯基丙烯酸酯	Antioxidant 3052	61167-58-6	6	99.0	5.10	IL
37	1,1,3-tris(2-methyl-4-hydroxy-5-tert-butylphenyl)butane,	Antioxidant CA	1843-03-4	5	98.0	0.54	ChemService
38	3-(1,1-dimethylethyl)-4-hydroxy-5-methyl-benzenepropanoic acid 2,4,8,10-tetraoxaspiro [5.5]undecane-3,9-diylbis (2,2-dimethyl-2,1-ethanediyl) ester, 1,1,3-三(2-甲基-4-羟基-5-叔丁基)丁烷	Sumilizer AG 80	90498-90-1		98.0	0.51	IL
39	<i>N</i> -phenyl-2-naphthylamine, <i>N</i> -苯基-2-萘胺	Antioxidant D	135-88-6		99.5	5.10	ChemService
40	2,4-bis(dodecylthiomethyl)-6-methylphenol, 2,4-二(十二烷基硫甲基)-6-甲基苯酚	Irganox 1726	110675-26-8	24	99.0	5.90	IL

Note: Dr: Dr. Ehrenstorfer GmbH; IL: International Laboratory; TCI: Tokyo Chemical Industry; SML: specific migration limit

