

# Chemical Reference Materials for Environmental and Health Concerns

## Halobenzoquinone Standards (disinfectant by-products)

**Halobenzoquinones (HBQs)** are disinfection by-products formed by reactions between disinfectants and organic matter in water. HBQs likely exhibit carcinogenic properties due to their structural similarities with benzoquinone and related compounds.



Halobenzoquinones		All in 10 µg/mL in AcCN		
Compound	CAS	Cat. No.	Unit	
2,3-Dibromo-5,6-dimethyl-1,4-benzoquinone	38969-08-3	HBQ-001S	1 mL	
2,6-Dichloro-1,4-benzoquinone	697-91-6	HBQ-002S	1 mL	
2,5-Dibromo-(1,4)benzoquinone	1633-14-3	HBQ-003S	1 mL	
2,3,5,6-Tetrabromo-(1,4)benzoquinone	488-48-2	HBQ-004S	1 mL	
3,4,5,6-Tetrabromo-(1,2)benzoquinone	2435-54-3	HBQ-005S	1 mL	
2,6-Dibromo-3,5-dimethyl-1,4-benzoquinone	87405-27-4	HBQ-006S	1 mL	
2,6-Dibromo-3-chloro-5-methyl-(1,4)benzoquinone		HBQ-007S	1 mL	

## Imidazole Standards (caramel coloring)

Over the past several years, there has been increased scrutiny of the caramel coloring used in food products, particularly cola-type soft drinks. There is concern of 4-methyl imidazole (4-MEI) that is created during the caramel coloring synthesis process. The concern arises because 4-MEI has been reported to be carcinogenic in high doses.



Imidazoles		NEAT		SOLUTION 100 µg/mL in Toluene	
Compound	CAS	Cat. No.	Unit	Cat. No.	Unit
4-Methylimidazole (4-MEI)	822-36-6	FAC-001N	100 mg	FAC-001S-T	1 mL
1-Methylimidazole	616-47-7	FAC-002N	100 mg	FAC-002S-T	1 mL
2-Ethylimidazole	1072-62-4	FAC-003N	100 mg	FAC-003S-T	1 mL
2-Methylimidazole	693-98-1	FAC-004N	100 mg	FAC-004S-T	1 mL
4(5)-(Hydroxymethyl)imidazole	822-55-9	FAC-005N-25MG	25 mg	FAC-005S-T	1 mL
Quinoline	91-22-5	-----	-----	FAC-IS-T	1 mL
				50 µg/mL in Toluene	
Imidazole Solution Set				FAC-SET	6 x 1 mL

## Bisphenol Analog Standards **UPDATED**

**Bisphenol A** (2,2'-bis(4-hydroxyphenyl)propane, BPA) has been used in commercial and industrial applications since the 1970's. It has been the subject of numerous toxicological studies due to human exposure from leachate originating from polycarbonate plastics and epoxy-lined food and drink containers. Analogs of BPA have been the subject of recent health-related studies.



Bisphenol Analog Standards		NEAT		SOLUTION 10 µg/mL in MeOH	
Compound	CAS	Cat. No.	Unit	Cat. No.	Unit
Bisphenol A diglycidyl ether (BADGE)	1675-54-3	BADGE-001N	50 mg	BADGE-001S	1 mL
Bisphenol A (BPA)	80-05-7	BPA-A-N	50 mg	BPA-A-S	1 mL
Bisphenol AF	1478-61-1	BPA-AF-N	50 mg	BPA-AF-S	1 mL
Bisphenol AP	1571-75-1	BPA-AP-N	50 mg	BPA-AP-S	1 mL
Bisphenol B	77-40-7	BPA-B-N-10MG	10 mg	BPA-B-S	1 mL
Bisphenol BP <b>NEW</b>	1844-01-5	BPA-BP-N	50 mg	BPA-BP-S	1 mL
Bisphenol C <b>NEW</b>	79-97-0	BPA-C-N	50 mg	BPA-C-S	1 mL
Bisphenol C-dichloride <b>NEW</b>	14868-03-2	BPA-C2-N	20 mg	BPA-C2-S	1 mL
Bisphenol E <b>NEW</b>	2081-08-5	BPA-E-N	50 mg	BPA-E-S	1 mL
Bisphenol F	620-92-8	BPA-F-N-10MG	10 mg	BPA-F-S	1 mL
Bisphenol G <b>NEW</b>	127-54-8	BPA-G-N	20 mg	BPA-G-S	1 mL
Bisphenol M <b>NEW</b>	13595-25-0	BPA-M-N	20 mg	BPA-M-S	1 mL
Bisphenol P	2167-51-3	BPA-P-N	50 mg	BPA-P-S	1 mL
Bisphenol PH <b>NEW</b>	24038-68-4	BPA-PH-N	20 mg	BPA-PH-S	1 mL
Bisphenol S	80-09-1	BPA-S-N	50 mg	BPA-S-S	1 mL
Bisphenol TMC <b>NEW</b>	129188-99-4	BPA-TMC-N-10MG	10 mg	BPA-TMC-S	1 mL
Bisphenol Z	843-55-0	BPA-Z-N	50 mg	BPA-Z-S	1 mL



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## Neonicotinoids and Fipronils (CCD) **UPDATED**

On-going research into honeybee colony collapse disorder (CCD) has revealed that this group of pesticides may be a contributing factor. There are several possibilities. Any one of which may be solely responsible or working synergistically contributing to honeybee decline. Included in this group are the **Neonicotinoid pesticides**. **Fipronil and Fipronil metabolites** also have been suspected as possible causative agents.



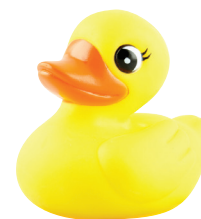
<b>Neonicotinoids</b>						
Compound	CAS	NEAT Cat. No.	Unit	SOLUTION Cat. No.	100 µg/mL Solvent	Unit
Acetamiprid	135410-20-7	P-820N	10 mg	P-820S-CN	AcCN	1 mL
6-Chloropyridine-3-carboxylic acid <b>NEW</b>	5326-23-8	P-1267N	10 mg	P-1267S	MeOH	1 mL
Clothianidin	210880-92-5	P-947N	10 mg	P-947S	MeOH	1 mL
n-Desmethylthiamethoxam <b>NEW</b>	171103-04-1	-----	-----	P-1266S	MeOH	1 mL
Dinotefuran	165252-70-0	-----	-----	P-986S-CN	AcCN	1 mL
Furathiocarb	65907-30-4	P-569N	10 mg	P-569S	MeOH	1 mL
6-Hydroxypyridine-3-carboxylic acid <b>NEW</b>	5006-66-6	P-1226N	10 mg	P-1226S	MeOH	1 mL
Imidacloprid	138261-41-3	P-596N	10 mg	P-596S	MeOH	1 mL
2-Imidazolidone <b>NEW</b>	120-93-4	P-1224N	10 mg	P-1224S	MeOH	1 mL
Nitenpyram	120738-89-8	P-858N	10 mg	P-858S-CN	AcCN	1 mL
Sulfoxaflor	946578-00-3	-----	-----	P-1133S	MeOH	1 mL
Thiacloprid	111988-49-9	P-838N	10 mg	P-838S-CN	AcCN	1 mL
Thiacloprid-amide <b>NEW</b>	676228-91-4	P-1223N	10 mg	P-1223S	MeOH	1 mL
Thiamethoxam	153719-23-4	P-866N	10 mg	P-866S-CN	AcCN	1 mL
<b>Fipronils</b>						
Fipronil	120068-37-3	P-738N	10 mg	P-738S	MeOH	1 mL
				P-738S-A	Acetone	1 mL
Fipronil desulfinyl	205650-65-3	-----	-----	P-782S-A	Acetone	1 mL
Fipronil sulfide	120067-83-6	P-781N-5MG	5 mg	P-781S-A	Acetone	1 mL
Fipronil sulfone	120068-36-2	-----	-----	P-780S-A	Acetone	1 mL
<b>Fipronil and Metabolite Kit</b>				<b>P-FIP-MET-KIT</b>		<b>4 x 1 mL</b>
				P-738S-A,P-782S-A,P-781S-A,P-780S-A		

## Phthalates **UPDATED**

The Consumer Products Safety Commission (CPSC) has proposed banning the use of several phthalates in materials for children's toys. In 2008, Congress banned dibutyl, n-butyl benzyl and di-2-ethyl hexyl (DEHP) phthalates as potential health risks.

Diisononyl (DINP), di-n-octyl (DNOP) and diisodecyl (DIDP) phthalates also were banned on an interim basis. CPSC's advisory panel now recommends a permanent ban on DINP, but says the ban on DNOP and DIDP should be lifted. In addition, the panel wants to ban diisobutyl, di-n-pentyl, di-n-hexyl and dicyclohexyl phthalates.

AccuStandard offers a comprehensive inventory of Congress and CPSC banned phthalates. Also available are a number of mono-phthalate metabolites. Please check our website for a complete listing of these plasticizers.



<b>NEW</b>						
Compound	NEAT Cat. No.	Unit	SOLUTION Cat. No.	100 µg/mL Solvent	Unit	
Decyl octyl phthalate (Tech Mix)	PHTH-012N	10 mg	PHTH-012S	MeOH	1 mL	
n-Butyl iso-butyl phthalate (Tech Mix)	PHTH-013N	10 mg	PHTH-013S	MeOH	1 mL	
n-Butyl benzyl phthalate	PHTH-014N	10 mg	PHTH-014S	MeOH	1 mL	
Iso-butyl benzyl phthalate	PHTH-015N	10 mg	PHTH-015S	MeOH	1 mL	
Pentyl isopentyl phthalate	PHTH-016N	10 mg	PHTH-016S	MeOH	1 mL	

### Phthalate Standards Reference Guide



**Phthalate Guide includes: Mono, Mixed Isomers, Deuterated, EPA Methods, with added technical and physical information**

**Available from website**