



## Bisphenol Analog Standards

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.

The evidence of the toxic effects of BPA has led to restrictions and regulations, resulting in its replacement in commercial products with related compounds. Several chemicals with structural similarity to BPA (ie. two hydroxyl phenyl moieties) have been used as alternatives in the manufacture of polycarbonate plastics and epoxy resins. 4,4'-sulfonyldiphenol (BPS) and 4,4'-dihydroxydiphenylmethane (BPF) are the two main substitutes. However, their similarity to BPA has led to their monitoring and testing for human exposure and toxicity as well.

In addition to the BPA analogs, there has been increased scrutiny of bisphenol A diglycidyl ether (BADGE) which is a widely used building block of epoxy resin. Studies have shown that it also might be linked to adverse human health effects.

AccuStandard has recognized the need for a comprehensive product line of these BPA related compounds; and is offering reference standards for eight BPA analogs as well as the BADGE starting material.

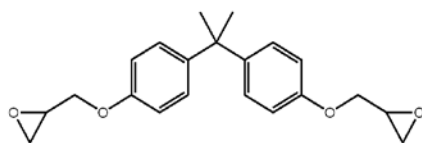


Property Key	
<b>CAS</b>	Chemical Abstract Service Number
<b>MF</b>	Molecular Formula
<b>MW</b>	Molecular Weight
<b>PS</b>	Physical State (Solid, Liquid)
<b>SOL</b>	Solubility
<b>SG</b>	Specific Gravity (g/cm <sup>3</sup> )
<b>MP</b>	Melting Point (°C)
<b>BP</b>	Boiling Point (°C)
<b>FP</b>	Flash Point (°C)

### References:

1. Environ. Sci. Technol. 2012, 46, 9138-9145 2. Environ. Sci. Technol. 2012, 46, 12968-12976 3. Environ. Sci. Technol. 2012, 46, 11558-11565

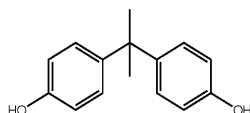
### Bisphenol A diglycidyl ether (BADGE)



**CAS** 1675-54-3 **MF** C<sub>21</sub>H<sub>24</sub>O<sub>4</sub> **MW** 340.41  
**log Kow** 3.8 **PS** S **SOL** MeOH **SG** 1.16 g/cm<sup>3</sup>  
**MP** 8-12 °C **BP** >200 °C **FP** N/A

Matrix	Cat. No.	Unit
NEAT	BADGE-001N	50 mg
10 mg/mL in MeOH	BADGE-001S	1 mL

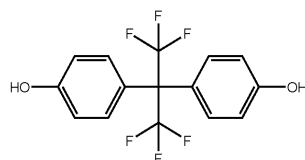
### Bisphenol A (BPA)



**CAS** 80-05-7 **MF** C<sub>15</sub>H<sub>16</sub>O<sub>2</sub> **MW** 228.29  
**log Kow** 3.43 **PS** S **SOL** Acetone, Benzene, Ether  
**SG** 1.14 g/cm<sup>3</sup> **MP** 156 °C **BP** 220 °C **FP** 192 °C

Matrix	Cat. No.	Unit
NEAT	BPA-A-N	50 mg
10 mg/mL in MeOH	BPA-A-S	1 mL

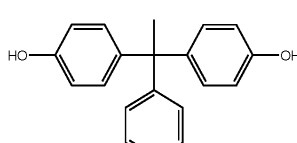
### Bisphenol AF



**CAS** 1478-61-1 **MF** C<sub>15</sub>H<sub>10</sub>F<sub>6</sub>O<sub>2</sub> **MW** 336.23  
**log Kow** 4.47 **PS** S **SG** 1.45 g/cm<sup>3</sup> **MP** 125-126 °C  
**BP** 344-345 °C **FP** 162 °C

Matrix	Cat. No.	Unit
NEAT	BPA-AF-N	50 mg
10 mg/mL in MeOH	BPA-AF-S	1 mL

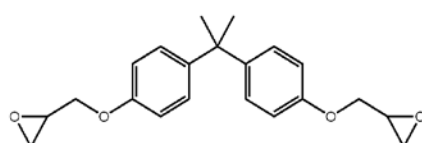
### Bisphenol AP



**CAS** 1571-75-1 **MF** C<sub>20</sub>H<sub>18</sub>O<sub>2</sub> **MW** 290.36  
**log Kow** 4.86 **PS** S **SG** 1.18 g/cm<sup>3</sup> **MP** 182-183 °C  
**BP** 473-475 °C **FP** 222 °C

Matrix	Cat. No.	Unit
NEAT	BPA-AP-N	50 mg
10 mg/mL in MeOH	BPA-AP-S	1 mL

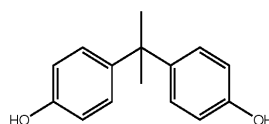
### Bisphenol A diglycidyl ether (BADGE)



**CAS** 1675-54-3 **MF** C<sub>21</sub>H<sub>24</sub>O<sub>4</sub> **MW** 340.41  
**log Kow** 3.8 **PS** S **SOL** MeOH **SG** 1.16 g/cm<sup>3</sup>  
**MP** 8-12 °C **BP** >200 °C **FP** N/A

Matrix	Cat. No.	Unit
NEAT	BADGE-001N	50 mg
10 mg/mL in MeOH	BADGE-001S	1 mL

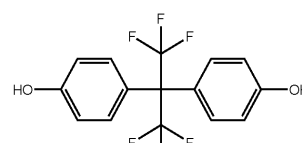
### Bisphenol A (BPA)



**CAS** 80-05-7 **MF** C<sub>15</sub>H<sub>16</sub>O<sub>2</sub> **MW** 228.29  
**log Kow** 3.43 **PS** S **SOL** Acetone, Benzene, Ether  
**SG** 1.14 g/cm<sup>3</sup> **MP** 156 °C **BP** 220 °C **FP** 192 °C

Matrix	Cat. No.	Unit
NEAT	BPA-A-N	50 mg
10 mg/mL in MeOH	BPA-A-S	1 mL

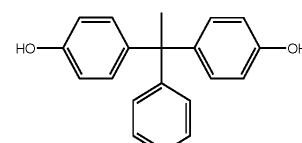
### Bisphenol AF



**CAS** 1478-61-1 **MF** C<sub>15</sub>H<sub>10</sub>F<sub>6</sub>O<sub>2</sub> **MW** 336.23  
**log Kow** 4.47 **PS** S **SG** 1.45 g/cm<sup>3</sup> **MP** 125-126 °C  
**BP** 344-345 °C **FP** 162 °C

Matrix	Cat. No.	Unit
NEAT	BPA-AF-N	50 mg
10 mg/mL in MeOH	BPA-AF-S	1 mL

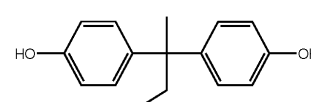
### Bisphenol AP



**CAS** 1571-75-1 **MF** C<sub>20</sub>H<sub>18</sub>O<sub>2</sub> **MW** 290.36  
**log Kow** 4.86 **PS** S **SG** 1.18 g/cm<sup>3</sup> **MP** 182-183 °C  
**BP** 473-475 °C **FP** 222 °C

Matrix	Cat. No.	Unit
NEAT	BPA-AP-N	50 mg
10 mg/mL in MeOH	BPA-AP-S	1 mL

### Bisphenol B



**CAS** 77-40-7 **MF** C<sub>16</sub>H<sub>18</sub>O<sub>2</sub> **MW** 242.31  
**log Kow** 4.13 **PS** S **SG** 1.12 g/cm<sup>3</sup> **MP** 138-140 °C  
**BP** 412-414 °C **FP** 196 °C

Matrix	Cat. No.	Unit
NEAT	BPA-B-N-10MG	10 mg
10 mg/mL in MeOH	BPA-B-S	1 mL

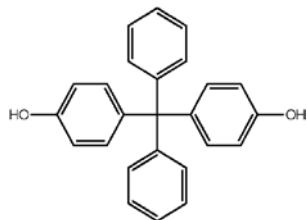
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Additional BPAs on reverse side

## Bisphenol Analog Standards (Continued)

### Bisphenol BP **NEW**

Bis(4-hydroxyphenyl)diphenylmethane

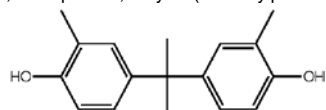


**CAS** 1844-01-5 **MF** C<sub>25</sub>H<sub>20</sub>O<sub>2</sub> **MW** 352.43  
**log Kow** 6.08 **PS** S **SG** 1.20 g/cm<sup>3</sup> **MP** 216-217 °C  
**BP** 508-510 °C **FP** 241 °C

Matrix	Cat. No.	Unit
NEAT	BPA-BP-N	50 mg
10 mg/mL in MeOH	BPA-BP-S	1 mL

### Bisphenol C **NEW**

4,4'-Propane-2,2-diylbis(2-methylphenol)

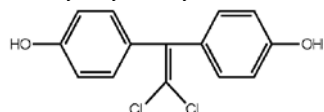


**CAS** 79-97-0 **MF** C<sub>17</sub>H<sub>20</sub>O<sub>2</sub> **MW** 256.34  
**log Kow** 4.74 **PS** S **SG** 1.15 g/cm<sup>3</sup> **MP** 139 °C  
**BP** 390 °C **FP** >190 °C

Matrix	Cat. No.	Unit
NEAT	BPA-BP-N	50 mg
10 mg/mL in MeOH	BPA-BP-S	1 mL

### Bisphenol C-dichloride **NEW**

Dihydroxymethoxychlor olef in

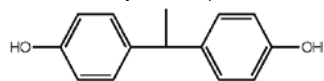


**CAS** 14868-03-2 **MF** C<sub>14</sub>H<sub>10</sub>Cl<sub>2</sub>O<sub>2</sub> **MW** 281.13  
**log Kow** 3.75 **PS** S **SG** 1.45 g/cm<sup>3</sup> **MP** 216 °C  
**BP** 395-398 °C **FP** >200 °C

Matrix	Cat. No.	Unit
NEAT	BPA-C2-N	20 mg
10 mg/mL in MeOH	BPA-C2-S	1 mL

### Bisphenol E **NEW**

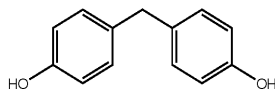
4,4'-Ethylidenebisphenol



**CAS** 2081-08-5 **MF** C<sub>14</sub>H<sub>14</sub>O<sub>2</sub> **MW** 214.26  
**log Kow** 3.19 **PS** S **SG** 1.25 g/cm<sup>3</sup> **MP** 125 °C  
**BP** 350-370 °C **FP** >180 °C

Matrix	Cat. No.	Unit
NEAT	BPA-E-N	50 mg
10 mg/mL in MeOH	BPA-E-S	1 mL

### Bisphenol F

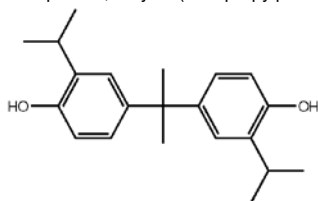


**CAS** N/A **MF** C<sub>13</sub>H<sub>12</sub>O<sub>2</sub> **MW** 200.23  
**log Kow** 2.91 **PS** S **SG** 1.21 g/cm<sup>3</sup> **MP** 128-130 °C  
**BP** 389-390 °C **FP** 193 °C

Matrix	Cat. No.	Unit
NEAT	BPA-F-N-10MG	10 mg
10 mg/mL in MeOH	BPA-F-S	1 mL

### Bisphenol G **NEW**

4,4'-Propane-2,2-diylbis(2-isopropylphenol)

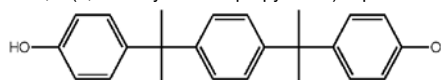


**CAS** 127-54-8 **MF** C<sub>21</sub>H<sub>28</sub>O<sub>2</sub> **MW** 312.45  
**log Kow** 6.55 **PS** S **SG** 1.05 g/cm<sup>3</sup> **MP** 98 °C  
**BP** 419-420 °C **FP** 185 °C

Matrix	Cat. No.	Unit
NEAT	BPA-G-N	20 mg
10 mg/mL in MeOH	BPA-G-S	1 mL

### Bisphenol M **NEW**

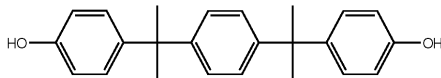
4,4'-(1,3-Phenylenediisopropylidene)bispheno



**CAS** 13595-25-0 **MF** C<sub>24</sub>H<sub>26</sub>O<sub>2</sub> **MW** 346.46  
**log Kow** 6.25 **PS** S **SG** 1.15 g/cm<sup>3</sup> **MP** 138 °C  
**BP** >495 °C **FP** >200 °C

Matrix	Cat. No.	Unit
NEAT	BPA-M-N	20 mg
10 mg/mL in MeOH	BPA-M-S	1 mL

### Bisphenol P

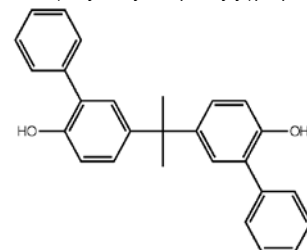


**CAS** N/A **MF** C<sub>24</sub>H<sub>26</sub>O<sub>2</sub> **MW** 346.46  
**log Kow** 6.25 **PS** S **SG** 1.11 g/cm<sup>3</sup> **MP** 199-200 °C  
**BP** 514-515 °C **FP** 230 °C

Matrix	Cat. No.	Unit
NEAT	BPA-P-N	50 mg
10 mg/mL in MeOH	BPA-P-S	1 mL

### Bisphenol PH **NEW**

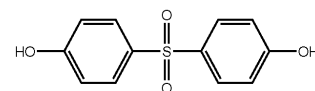
2,2-Bis(2-hydroxy-5-biphenyl)propane



**CAS** 24038-68-4 **MF** C<sub>24</sub>H<sub>24</sub>O<sub>2</sub> **MW** 380.48  
**log Kow** 7.17 **PS** S **SG** 1.20 g/cm<sup>3</sup> **MP** 118 °C  
**BP** 567-568 °C **FP** 250 °C

Matrix	Cat. No.	Unit
NEAT	BPA-PH-N	20 mg
10 mg/mL in MeOH	BPA-PH-S	1 mL

### Bisphenol S

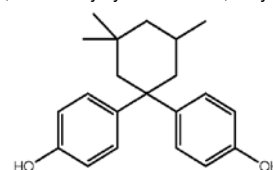


**CAS** N/A **MF** C<sub>12</sub>H<sub>10</sub>O<sub>4</sub> **MW** 250.27  
**log Kow** 1.65 **PS** S **SG** 1.43 g/cm<sup>3</sup> **MP** 176-177 °C  
**BP** 505-506 °C **FP** 259 °C

Matrix	Cat. No.	Unit
NEAT	BPA-S-N	50 mg
10 mg/mL in MeOH	BPA-S-S	1 mL

### Bisphenol TMC **NEW**

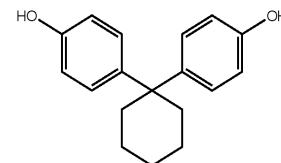
4,4'-(3,3,5-Trimethylcyclohexane-1,1-diyl)diphenol



**CAS** 129188-99-4 **MF** C<sub>21</sub>H<sub>26</sub>O<sub>2</sub> **MW** 310.43  
**log Kow** 6.29 **PS** S **SG** 1.10 g/cm<sup>3</sup> **MP** 180 °C  
**BP** 450 °C **FP** 203 °C

Matrix	Cat. No.	Unit
NEAT	BPA-TMC-N-10MG	20 mg
10 mg/mL in MeOH	BPA-TMC-S	1 mL

### Bisphenol Z



**CAS** N/A **MF** C<sub>18</sub>H<sub>20</sub>O<sub>2</sub> **MW** 268.35  
**log Kow** 5.00 **PS** S **SG** 1.17 g/cm<sup>3</sup> **MP** 165-166 °C  
**BP** 440-441 °C **FP** 207 °C

Matrix	Cat. No.	Unit
NEAT	BPA-Z-N	50 mg
10 mg/mL in MeOH	BPA-Z-S	1 mL