



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.

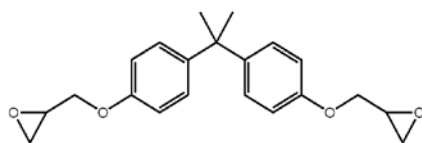


Property Key	
CAS	Chemical Abstract Service Number
MF	Molecular Formula
MW	Molecular Weight
PS	Physical State (Solid, Liquid)
SOL	Solubility
SG	Specific Gravity (g/cm ³)
MP	Melting Point (°C)
BP	Boiling Point (°C)
FP	Flash Point (°C)

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

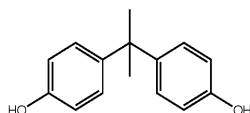
Bisphenol A diglycidyl ether (BADGE)



CAS 1675-54-3 **MF** C₂₁H₂₄O₄ **MW** 340.41
log Kow 3.8 **PS** S **SOL** MeOH **SG** 1.16 g/cm³
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

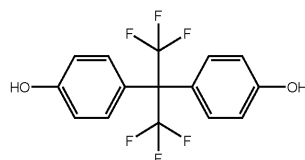
Bisphenol A (BPA)



CAS 80-05-7 **MF** C₁₅H₁₆O₂ **MW** 228.29
log Kow 3.43 **PS** S **SOL** Acetone, Benzene, Ether
SG 1.14 g/cm³ **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

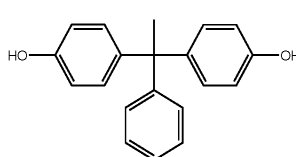
Bisphenol AF



CAS 1478-61-1 **MF** C₁₅H₁₀F₆O₂ **MW** 336.23
log Kow 4.47 **PS** S **SG** 1.45 g/cm³ **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

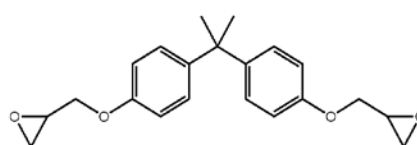
Bisphenol AP



CAS 1571-75-1 **MF** C₂₀H₁₈O₂ **MW** 290.36
log Kow 4.86 **PS** S **SG** 1.18 g/cm³ **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

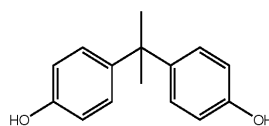
Bisphenol A diglycidyl ether (BADGE)



CAS 1675-54-3 **MF** C₂₁H₂₄O₄ **MW** 340.41
log Kow 3.8 **PS** S **SOL** MeOH **SG** 1.16 g/cm³
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

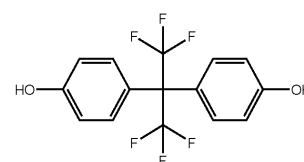
Bisphenol A (BPA)



CAS 80-05-7 **MF** C₁₅H₁₆O₂ **MW** 228.29
log Kow 3.43 **PS** S **SOL** Acetone, Benzene, Ether
SG 1.14 g/cm³ **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

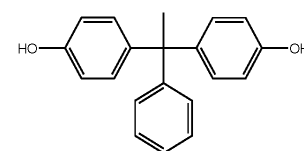
Bisphenol AF



CAS 1478-61-1 **MF** C₁₅H₁₀F₆O₂ **MW** 336.23
log Kow 4.47 **PS** S **SG** 1.45 g/cm³ **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

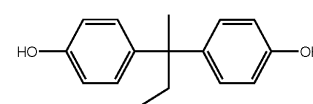
Bisphenol AP



CAS 1571-75-1 **MF** C₂₀H₁₈O₂ **MW** 290.36
log Kow 4.86 **PS** S **SG** 1.18 g/cm³ **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



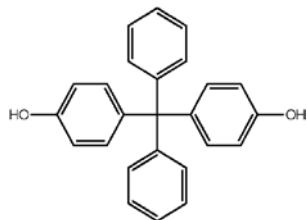
CAS 77-40-7 **MF** C₁₆H₁₈O₂ **MW** 242.31
log Kow 4.13 **PS** S **SG** 1.12 g/cm³ **MP** 138-140 °C
BP 412-414 °C **FP** 196 °C

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

Bisphenol Analog Standards

Bisphenol BP **NEW**

Bis(4-hydroxyphenyl)diphenylmethane

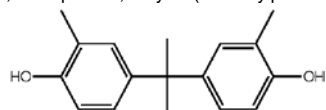


CAS 1844-01-5 MF C₂₅H₂₀O₂ MW 352.43
log Kow 6.08 PS S SG 1.20 g/cm³ MP 216-217 °C
BP 508-510 °C FP 241 °C

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)

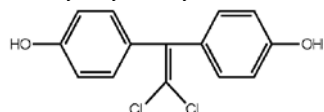


CAS 79-97-0 MF C₁₇H₂₀O₂ MW 256.34
log Kow 4.74 PS S SG 1.15 g/cm³ MP 139 °C
BP 390 °C FP >190 °C

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

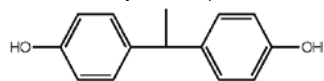


CAS 14868-03-2 MF C₁₄H₁₀Cl₂O₂ MW 281.13
log Kow 3.75 PS S SG 1.45 g/cm³ MP 216 °C
BP 395-398 °C FP >200 °C

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

Bisphenol E **NEW**

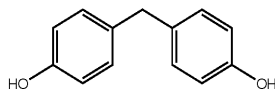
4,4'-Ethylidenebisphenol



CAS 2081-08-5 MF C₁₄H₁₄O₂ MW 214.26
log Kow 3.19 PS S SG 1.25 g/cm³ 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

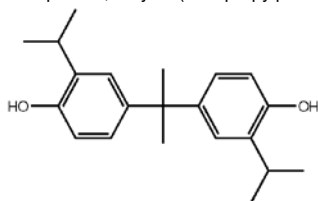


CAS N/A MF C₁₃H₁₂O₂ MW 200.23
log Kow 2.91 PS S SG 1.21 g/cm³ MP 128-130 °C
BP 389-390 °C FP 193 °C

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)

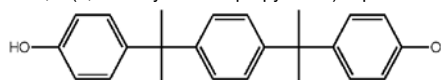


CAS 127-54-8 MF C₂₁H₂₈O₂ MW 312.45
log Kow 6.55 PS S SG 1.05 g/cm³ MP 98 °C
BP 419-420 °C FP 185 °C

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

Bisphenol M **NEW**

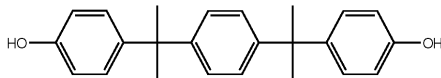
4,4'-(1,3-Phenylenediisopropylidene)bispheno



CAS 13595-25-0 MF C₂₄H₂₆O₂ MW 346.46
log Kow 6.25 PS S SG 1.15 g/cm³ 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

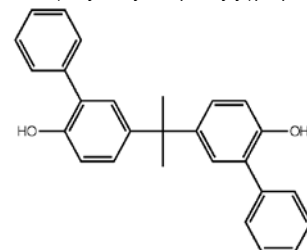


CAS N/A MF C₂₄H₂₆O₂ MW 346.46
log Kow 6.25 PS S SG 1.11 g/cm³ MP 199-200 °C
BP 514-515 °C FP 230 °C

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

Bisphenol PH **NEW**

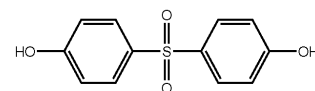
2,2-Bis(2-hydroxy-5-biphenyl)propane



CAS 24038-68-4 MF C₂₄H₂₄O₂ MW 380.48
log Kow 7.17 PS S SG 1.20 g/cm³ 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

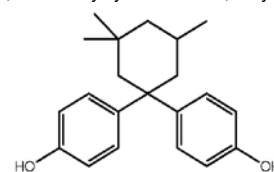


CAS N/A MF C₁₂H₁₀O₄ MW 250.27
log Kow 1.65 PS S SG 1.43 g/cm³ MP 176-177 °C
BP 505-506 °C FP 259 °C

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

Bisphenol TMC **NEW**

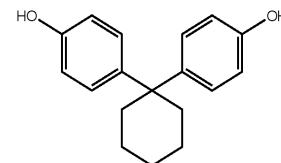
4,4'-(3,3,5-Trimethylcyclohexane-1,1-diyl)diphenol



CAS 129188-99-4 MF C₂₁H₂₆O₂ MW 310.43
log Kow 6.29 PS S SG 1.10 g/cm³ 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 C₁₈H₂₀O₂ MW 268.35
log Kow 5.00 PS S SG 1.17 g/cm³ 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