



Bromodiphenyl Ethers

Bromodiphenyl ethers



Evidence suggests that Bromodiphenyl ethers are globally distributed in the environment. They have been used over the past two decades as flame retardants. Much of the analytical research has been conducted outside of the United States, but there is an increasing interest in these chemicals worldwide. AccuStandard has initiated a synthesis program to develop a long term supply of these compounds to meet this new interest. Both single and multi-component standards have been developed in convenient concentrations and solvents to assist researchers in this analysis. If you require additional bromodiphenyl ethers contact our technical department to determine the status of new bromodiphenyl ethers being added to this product line or have us generate a quotation to synthesize the specific bromodiphenyl ether(s) of interest.

Individual Bromodiphenyl ethers
50 µg/mL in Isooctane

Cat. No.		Unit	Cat. No.		Unit
BDE-001S	2-Bromodiphenyl ether	1 mL	BDE-085S	2,2',3,4,4'-Pentabromodiphenyl ether	1 mL
BDE-002S	3-Bromodiphenyl ether	1 mL	BDE-086S	2,2',3,4,5-Pentabromodiphenyl ether	1 mL
BDE-003S	4-Bromodiphenyl ether	1 mL	BDE-087S	2,2',3,4,5'-Pentabromodiphenyl ether	1 mL
BDE-004S	2,2'-Dibromodiphenyl ether	1 mL	BDE-088S	2,2',3,4,6-Pentabromodiphenyl ether	1 mL
BDE-006S	2,3'-Dibromodiphenyl ether	1 mL	BDE-097S	2,2',3',4,5-Pentabromodiphenyl ether	1 mL
BDE-007S	2,4-Dibromodiphenyl ether	1 mL	BDE-098S	2,2',3',4,6-Pentabromodiphenyl ether	1 mL
BDE-008S	2,4'-Dibromodiphenyl ether	1 mL	BDE-099S	2,2',4,4',5-Pentabromodiphenyl ether	1 mL
BDE-009S	2,5-Dibromodiphenyl ether	1 mL	BDE-100S	2,2',4,4',6-Pentabromodiphenyl ether	1 mL
BDE-010S	2,6-Dibromodiphenyl ether	1 mL	BDE-101S	2,2',4,5,5'-Pentabromodiphenyl ether	1 mL
BDE-011S	3,3'-Dibromodiphenyl ether	1 mL	BDE-102S	2,2',4,5,6'-Pentabromodiphenyl ether	1 mL
BDE-012S	3,4-Dibromodiphenyl ether	1 mL	BDE-103S	2,2',4,5',6-Pentabromodiphenyl ether	1 mL
BDE-013S	3,4'-Dibromodiphenyl ether	1 mL	BDE-104S	2,2',4,6,6'-Pentabromodiphenyl ether	1 mL
BDE-014S	3,5-Dibromodiphenyl ether	1 mL	BDE-105S	2,3,3',4,4'-Pentabromodiphenyl ether	1 mL
BDE-015S	4,4'-Dibromodiphenyl ether	1 mL	BDE-106S	2,3,3',4,5-Pentabromodiphenyl ether	1 mL
BDE-016S	2,2',3-Tribromodiphenyl ether	1 mL	BDE-108S	2,3,3',4,5'-Pentabromodiphenyl ether	1 mL
BDE-017S	2,2',4-Tribromodiphenyl ether	1 mL	BDE-109S	2,3,3',4,6-Pentabromodiphenyl ether	1 mL
BDE-018S	2,2',5-Tribromodiphenyl ether	1 mL	BDE-114S	2,3,4,4',5-Pentabromodiphenyl ether	1 mL
BDE-019S	2,2',6-Tribromodiphenyl ether	1 mL	BDE-115S	2,3,4,4',6-Pentabromodiphenyl ether	1 mL
BDE-020S	2,3,3'-Tribromodiphenyl ether	1 mL	BDE-116S	2,3,4,5,6-Pentabromodiphenyl ether	1 mL
BDE-022S	2,3,4'-Tribromodiphenyl ether	1 mL	BDE-118S	2,3',4,4',5-Pentabromodiphenyl ether	1 mL
BDE-025S	2,3',4-Tribromodiphenyl ether	1 mL	BDE-119S	2,3',4,4',6-Pentabromodiphenyl ether	1 mL
BDE-026S	2,3',5-Tribromodiphenyl ether	1 mL	BDE-120S	2,3',4,5,5'-Pentabromodiphenyl ether	1 mL
BDE-027S	2,3',6-Tribromodiphenyl ether	1 mL	BDE-121S	2,3',4,4',5'-Pentabromodiphenyl ether	1 mL
BDE-028S	2,4,4'-Tribromodiphenyl ether	1 mL	BDE-123S	2',3,4,4',5-Pentabromodiphenyl ether	1 mL
BDE-029S	2,4,5-Tribromodiphenyl ether	1 mL	BDE-124S	2',3,4,5,5'-Pentabromodiphenyl ether	1 mL
BDE-030S	2,4,6-Tribromodiphenyl ether	1 mL	BDE-125S	2',3,4,5,6'-Pentabromodiphenyl ether	1 mL
BDE-031S	2,4',5-Tribromodiphenyl ether	1 mL	BDE-126S	3,3',4,4',5'-Pentabromodiphenyl ether	1 mL
BDE-032S	2,4',6-Tribromodiphenyl ether	1 mL	BDE-127S	3,3',4,5,5'-Pentabromodiphenyl ether	1 mL
BDE-033S	2',3,4-Tribromodiphenyl ether	1 mL	BDE-128S	2,2',3,3',4,4'-Hexabromodiphenyl ether	1 mL
BDE-034S	2',3,5-Tribromodiphenyl ether	1 mL	BDE-131S	2,2',3,3',4,6-Hexabromodiphenyl ether	1 mL
BDE-035S	3,3',4-Tribromodiphenyl ether	1 mL	BDE-138S	2,2',3,4,4',5'-Hexabromodiphenyl ether	1 mL
BDE-036S	3,3',5-Tribromodiphenyl ether	1 mL	BDE-139S	2,2',3,4,4',6-Hexabromodiphenyl ether	1 mL
BDE-037S	3,4,4'-Tribromodiphenyl ether	1 mL	BDE-140S	2,2',3,4,4',6'-Hexabromodiphenyl ether	1 mL
BDE-038S	3,4,5-Tribromodiphenyl ether	1 mL	BDE-141S	2,2',3,4,4',5'-Hexabromodiphenyl ether	1 mL
BDE-039S	3,4',5-Tribromodiphenyl ether	1 mL	BDE-142S	2,2',3,4,4',5,6-Hexabromodiphenyl ether	1 mL
BDE-040S	2,2',3,3'-Tetrabromodiphenyl ether	1 mL	BDE-144S	2,2',3,4,5',6-Hexabromodiphenyl ether	1 mL
BDE-042S	2,2',3,4'-Tetrabromodiphenyl ether	1 mL	BDE-153S	2,2',4,4',5,5'-Hexabromodiphenyl ether	1 mL
BDE-046S	2,2',3,6'-Tetrabromodiphenyl ether	1 mL	BDE-154S	2,2',4,4',5,6'-Hexabromodiphenyl ether	1 mL
BDE-047S	2,2',4,4'-Tetrabromodiphenyl ether	1 mL	BDE-155S	2,2',3,4,4',6,6'-Hexabromodiphenyl ether	1 mL
BDE-048S	2,2',4,5-Tetrabromodiphenyl ether	1 mL	BDE-156S	2,3,3',4,4',5-Hexabromodiphenyl ether	1 mL
BDE-049S	2,2',4,5'-Tetrabromodiphenyl ether	1 mL	BDE-158S	2,3,3',4,4',6-Hexabromodiphenyl ether	1 mL
BDE-050S	2,2',4,6-Tetrabromodiphenyl ether	1 mL	BDE-159S	2,3,3',4,5,5'-Hexabromodiphenyl ether	1 mL
BDE-051S	2,2',4,6'-Tetrabromodiphenyl ether	1 mL	BDE-160S	2,3,3',4,5,6-Hexabromodiphenyl ether	1 mL
BDE-053S	2,2',5,6'-Tetrabromodiphenyl ether	1 mL	BDE-161S	2,3,3',4,5',6-Hexabromodiphenyl ether	1 mL
BDE-055S	2,3,3',4-Tetrabromodiphenyl ether	1 mL	BDE-166S	2,3,4,4',5,6-Hexabromodiphenyl ether	1 mL
BDE-058S	2,3,3',5-Tetrabromodiphenyl ether	1 mL	BDE-167S	2,3',4,4',5,5'-Hexabromodiphenyl ether	1 mL
BDE-062S	2,3,4,6-Tetrabromodiphenyl ether	1 mL	BDE-168S	2,3',4,4',5',6-Hexabromodiphenyl ether	1 mL
BDE-066S	2,3',4,4'-Tetrabromodiphenyl ether	1 mL	BDE-173S	2,2',3,3',4,5,6-Heptabromodiphenyl ether	1 mL
BDE-067S	2,3',4,5-Tetrabromodiphenyl ether	1 mL	BDE-181S	2,2',3,4,4',5,6-Heptabromodiphenyl ether	1 mL
BDE-068S	2,3',4,5'-Tetrabromodiphenyl ether	1 mL	BDE-182S	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	1 mL
BDE-069S	2,3',4,6-Tetrabromodiphenyl ether	1 mL	BDE-183S	2,2',3,4,4',5',6-Heptabromodiphenyl ether	1 mL
BDE-071S	2,3',4',6-Tetrabromodiphenyl ether	1 mL	BDE-184S	2,2',3,4,4',6,6'-Heptabromodiphenyl ether	1 mL
BDE-072S	2,3',5,5'-Tetrabromodiphenyl ether	1 mL	BDE-185S	2,2',3,4,5,5',6-Heptabromodiphenyl ether	1 mL
BDE-073S	2,3',5',6-Tetrabromodiphenyl ether	1 mL	BDE-190S	2,3,3',4,4',5,6-Heptabromodiphenyl ether	1 mL
BDE-074S	2,4,4',5-Tetrabromodiphenyl ether	1 mL	BDE-191S	2,3,3',4,4',5',6-Heptabromodiphenyl ether	1 mL
BDE-075S	2,4,4',6-Tetrabromodiphenyl ether	1 mL	BDE-192S	2,3,3',4,5,5',6-Heptabromodiphenyl ether	1 mL
BDE-076S	2',3,4,5-Tetrabromodiphenyl ether	1 mL	BDE-203S	2,2',3,4,4',5,5',6-Octabromodiphenyl ether	1 mL
BDE-077S	3,3',4,4'-Tetrabromodiphenyl ether	1 mL	BDE-204S	2,2',3,4,4',5,6,6'-Octabromodiphenyl ether	1 mL
BDE-078S	3,3',4,5-Tetrabromodiphenyl ether	1 mL	BDE-205S	2,3,3',4,4',5,5',6-Octabromodiphenyl ether	1 mL
BDE-079S	3,3',4,5'-Tetrabromodiphenyl ether	1 mL	BDE-208S	2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether	1 mL
BDE-080S	3,3',5,5'-Tetrabromodiphenyl ether	1 mL	BDE-209S	Decabromodiphenyl ether	1 mL
BDE-081S	3',4,4',5-Tetrabromodiphenyl ether	1 mL			

Bromobiphenyls & Bromodiphenyl Ethers



Bromobiphenyls

■ All compounds 99% pure, except where indicated

CAS No.	Compound	Neat		1 mL Solution @ 35 µg/mL in Isooctane
		Cat. No.	Unit	Cat. No.
2052-07-5	2-Bromobiphenyl	B-001N	50 mg	B-001S
2113-57-7	3-Bromobiphenyl	B-002N	50 mg	B-002S
92-66-0	4-Bromobiphenyl	B-003N	50 mg	B-003S
13099-09-9	2,2'-Dibromobiphenyl	-----	-----	B-004S
53592-10-2	2,4-Dibromobiphenyl	B-007N	25 mg	B-007S
57422-77-2	2,5-Dibromobiphenyl	B-009N	25 mg	B-009S
59080-32-9	2,6-Dibromobiphenyl	B-010N	10 mg	B-010S
92-86-4	4,4'-Dibromobiphenyl	B-015N	10 mg	B-015S
59080-34-1	2,2',5-Tribromobiphenyl	B-018N	10 mg	B-018S
59080-35-2	2,3',5-Tribromobiphenyl	B-026N	10 mg	B-026S
59080-35-3	2,4',5-Tribromobiphenyl	B-031N	10 mg	B-031S
59080-33-0	2,4,6-Tribromobiphenyl	B-030N	25 mg	B-030S
60044-24-8	2,2',4,5'-Tetrabromobiphenyl	B-049N	10 mg	B-049S
59080-37-4	2,2',5,5'-Tetrabromobiphenyl	B-052N	10 mg	B-052S
60044-25-9	2,2',5,6'-Tetrabromobiphenyl	B-053N	10 mg	B-053S
77102-82-0	3,3',4,4'-Tetrabromobiphenyl	-----	-----	B-077S
16400-50-3	3,3',5,5'-Tetrabromobiphenyl	-----	-----	B-080S
59080-39-6	2,2',4,5',6-Pentabromobiphenyl	B-103N	5 mg	B-103S
59080-40-9	2,2',4,4',5,5'-Hexabromobiphenyl	B-153N	10 mg	B-153S
59261-08-4	2,2',4,4',6,6'-Hexabromobiphenyl (98+%)	B-155N	5 mg	B-155S
77607-09-1	3,3',4,4',5,5'-Hexabromobiphenyl	-----	-----	B-169S
13654-09-6	Decabromobiphenyl (98+%)	B-209N	25 mg	B-209S
N/A	Dow FR-250 (Octabromobiphenyl)	B-250N	10 mg	B-250S*
N/A	Firemaster BP-6 (Hexabromobiphenyl)	B-600N	10 mg	B-600S*

* 100 µg/mL in Isooctane

Bromodiphenyl Ethers

Lake Michigan Study Methods

Cat. No.	10 µg/mL each in Isooctane	Unit
BDE-LMS		1 mL
9 components		
2,4,4'-Tribromodiphenyl ether		
2,2',4,4'-Tetrabromodiphenyl ether		
2,3',4,4'-Tetrabromodiphenyl ether		
2,2',3,4,4'-Pentabromodiphenyl ether		
2,2',4,4',5-Pentabromodiphenyl ether		
2,2',4,4',6-Pentabromodiphenyl ether		
2,2',3,4,4',5'-Hexabromodiphenyl ether		
2,2',4,4',5,5'-Hexabromodiphenyl ether		
2,2',4,4',5,6'-Hexabromodiphenyl ether		

Common Bromodiphenyl Ethers in US Environment

Cat. No.	10 µg/mL each in Isooctane	Unit
BDE-USE		1 mL
5 components		
2,2',4,4'-Tetrabromodiphenyl ether		
2,2',4,4',5-Pentabromodiphenyl ether		
2,2',4,4',6-Pentabromodiphenyl ether		
2,2',4,4',5,5'-Hexabromodiphenyl ether		
2,2',4,4',5,6'-Hexabromodiphenyl ether		

Flame Retardants

Compound	Active Ingredient	10 mg Neat Compound	1 mL Solution at 100 µg/mL in Toluene
		Cat. No.	Cat. No.
Chlorendic anhydride	Chlorendic Anhydride	FRS-001N	FRS-001S
Chlorafin 40	Chlorinated Paraffin	FRS-002N	FRS-002S
Chlorowax 500C	Chlorinated Hydrocarbons 59.0 %	FRS-004N	FRS-004S
Diable 700X	Chlorinated Hydrocarbons 70.0 %	FRS-005N	FRS-005S
Dow FR-250	Octabromobiphenyl	B-250N	B-250S*
Firemaster BP4A	Tetrabromobiphenol A	FRS-006N	FRS-006S
Firemaster BP-6	Hexabromobiphenyl	B-600N	B-600S*
Firemaster PHT4	Tetrabromophthalic anhydride	FRS-007N	FRS-007S
Firemaster T23P	Tris(2,3-dibromopropyl)phosphate	FRS-008N	FRS-008S
FR-300BA	Decabromodiphenyl oxide 85.5 %	FRS-009N	FRS-009S
FR-651A	Pentabromochlorocyclohexane	FRS-010N	FRS-010S
FR-1138	Dibromoneopentyl glycol 85.0 %	FRS-011N	FRS-011S
Hexabromobenzene	Hexabromobenzene (Michigan Chemical)	FRS-012N	FRS-012S
Hexabromobenzene	Hexabromobenzene (White Chemical)	FRS-013N	FRS-013S
Paroil 170-HV		FRS-015N	FRS-015S
Paroil 170-8		FRS-016N	FRS-016S
Hexachlorobutadiene	Hexachlorobutadiene	FRS-017N	FRS-017S
Pentabromotoluene	Pentabromotoluene	FRS-018N	FRS-018S
Phosgard C 22-R	Halogenated organic phosphate ester	FRS-019N	FRS-019S
Phosgard 2XC-20	Halogenated organic phosphate ester	FRS-020N	FRS-020S
Tetrabromo-o-chlorotoluene	Tetrabromo-o-chlorotoluene	FRS-021N	FRS-021S
Tetrachlorobisphenol A	Tetrachlorobisphenol A	FRS-022N	FRS-022S
TP-69	Tris(2,3-dibromopropyl)phosphate	FRS-023N	FRS-023S
Unichlor 40-90	Chlorinated Hydrocarbons 38.5 %	FRS-024N	FRS-024S
Unichlor 502-50	Chlorinated Hydrocarbons 52.0 %	FRS-025N	FRS-025S
Unichlor 70AX	Chlorinated Hydrocarbons 70.0 %	FRS-026N	FRS-026S

* 100 µg/mL in Isooctane

Bromodiphenyl ethers in proposed US EPA Method

Cat. No.	50 µg/mL each in Isooctane	Unit
BDE-EPA-SET		1 mL
8 components		
2,4,4'-Tribromodiphenyl ether		
2,2',4,4'-Tetrabromodiphenyl ether		
2,2',4,4',5-Pentabromodiphenyl ether		
2,2',4,4',6-Pentabromodiphenyl ether		
2,2',4,4',5,5'-Hexabromodiphenyl ether		
2,2',4,4',5,6'-Hexabromodiphenyl ether		
2,2',3,4,4',5,6'-Heptabromodiphenyl ether		
Decabromodiphenyl ether		