

Decabromodiphenyl Ether (DecaBDE)

Brominated additive documented for historical and legally permitted specialty polymer applications; destination-specific restrictions apply.

CAS No. 1163-19-5	EC / List No. 214-604-9	Transport Class 9 — Environmentally hazardous solid
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Product Information

Decabromodiphenyl ether, DecaBDE or decabromodiphenyl oxide, CAS 1163-19-5, belongs to the polybrominated diphenyl ether family. It is chemically different from decabromodiphenyl ethane. Product identification should preserve the ether structure and exact CAS when assessing legacy specifications.

Specifications

Parameter	Specification
Appearance	White powder
Whiteness	≥94 %
Bromine content	82–83 %
Free bromine	≤10 mg/kg
Average particle size	≤3 μm
Melting range	300–310 °C
Volatile matter	≤0.10 %

Restricted material: assess the destination and permitted end use before procurement. Supply data do not establish regulatory permission or a finished-material flame rating.

Typical Properties

Property	Typical Value
Molecular formula	C ₁₂ Br ₁₀ O
Molecular weight	959.17 g/mol

Applications

Legacy polymer specifications: Identity and quality information for historical polymer specifications. Review applicable market restrictions before considering continued use.

Permitted specialty applications: Technical reference for applications that are explicitly permitted by the relevant destination rules. Test the complete system within that permitted scope.

Formulation replacement studies: Reference ingredient for evaluating a legacy formulation and suitable replacement strategy. Compare compatibility, processing and finished-material fire performance.

Packaging / Storage

Item	Information
Packing	25 kg bags / 1,000 kg bulk bags
Storage	Keep dry, tightly closed and well ventilated in a controlled-access chemical storage area. Protect packaging from damage and prevent release to the environment.
Handling	Use enclosed powder feeding or effective extraction with controlled access. Wear compatible impervious gloves, eye protection and protective clothing; select appropriate particulate respiratory protection for the assessed exposure.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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