



LKT Laboratories, Inc.

Benzo[a]pyrene

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Product Information

Product ID B1652

CAS No. 50-32-8

Chemical Name 3,4-Benzpyrene

Synonym 1,2-benzpyrene, 1,2-benzopyrene, 6,7-benzopyrene, benzo[a]pyrene, BP, 3,4-benzylpyrene, 3,4-benz[a]pyrene

Formula C₂₀H₁₂

Formula Wt. 252.32

Melting Point 176-178°C

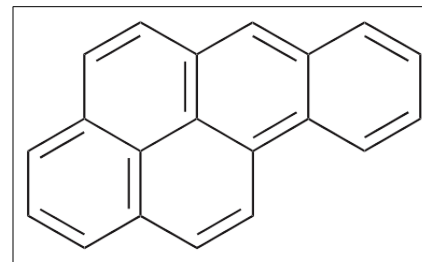
Purity ≥98%

Solubility Soluble in chloroform, benzene, toluene, xylene, ether. Insoluble in water. Sparingly soluble in alcohol, methanol

Store Temp Ambient

Ship Temp Ambient

Description Benzo[a]pyrene is a polycyclic aromatic hydrocarbon (PAH) originally found in coal tar, cigarette smoke, and wood smoke. Metabolites of this compound bind DNA and induce mutations. Benzo[a]pyrene is highly carcinogenic and is used in research models to induce carcinogenesis and tumor formation.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
B1652	500 mg	\$172.20
B1652	1 g	\$299.60

WARNING: Strong carcinogen. Handle with care.

References Gao L, Mai A, Li X, et al. LncRNA-DQ786227-mediated cell malignant transformation induced by benzo(a)pyrene. *Toxicol Lett.* 2013 Nov 25;223(2):205-10. PMID: 24084393.

Naveenkumar C, Raghunandakumar S, Asokkumar S, et al. Mitigating role of baicalein on lysosomal enzymes and xenobiotic metabolizing enzyme status during lung carcinogenesis of Swiss albino mice induced by benzo(a)pyrene. *Fundam Clin Pharmacol.* 2014 Jun;28(3):310-22. PMID: 23834621.

Poirier MC, Santella R, Weinstein IB, et al. Quantitation of benzo(a)pyrene-deoxyguanosine adducts by radioimmunoassay. *Cancer Res.* 1980 Feb;40(2):412-6. PMID: 7356524.

Selkirk JK. Benzo[a]pyrene carcinogenesis: a biochemical selection mechanism. *J Toxicol Environ Health.* 1977 Jul;2(6):1245-58. PMID: 328915.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.