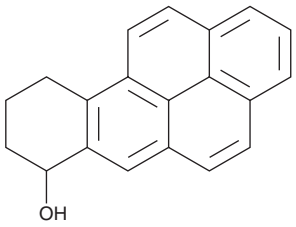
PRODUCT INFORMATION

7,8,9,10-Tetrahydrobenzo[a]pyren-7-ol

Item No. 16225

CAS Registry No.: 6272-55-5
Formal Name: 7,8,9,10-tetrahydro-benzo[a]pyren-7-ol
Synonyms: 7-HTBP, NSC 30871
MF: $C_{20}H_{16}O$
FW: 272.3
Purity: ≥98%
UV/Vis.: λ_{max}: 246, 267, 278, 314, 328, 345 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

7,8,9,10-Tetrahydrobenzo[a]pyren-7-ol is supplied as a crystalline solid. A stock solution may be made by dissolving the 7,8,9,10-tetrahydrobenzo[a]pyren-7-ol in the solvent of choice, which should be purged with an inert gas. 7,8,9,10-Tetrahydrobenzo[a]pyren-7-ol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 7,8,9,10-tetrahydrobenzo[a]pyren-7-ol in ethanol is approximately 0.2 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Description

7,8,9,10-Tetrahydrobenzo[a]pyren-7-ol is a benzopyrene derivative that is activated by hepatic cytosol into electrophilic sulfuric acid esters, which are capable of forming covalent DNA adducts and inducing mutations.[1,2]

References

1. Glatt, H., Pauly, K., Frank, H., *et al.* Substance-dependent sex differences in the activation of benzylic alcohols to mutagens by hepatic sulfotransferases of the rat. *Carcinogenesis* **15(11)**, 2605-2611 (1994).
2. Surh, Y.J. and Tannenbaum, S.R. Sulfotransferase-mediated activation of 7,8,9,10-tetrahydro-7-ol, 7,8-dihydrodiol, and 7,8,9,10-tetraol derivatives of benzo[a]pyrene. *Chem. Res. Toxicol.* **8(5)**, 693-698 (1995).

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