

PRODUCT INFORMATION



di-AMS

Item No. 45196

CAS Registry No.: 10081-67-1

Formal Name: 4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]-benzenamine

Synonyms: Bis(4-(2-phenylpropan-2-yl)phenyl)amine, 4,4'-Bis(α,α -dimethylbenzyl)diphenylamine, DCDPA, 4,4'-Dicumyldiphenylamine

MF: $C_{30}H_{31}N$

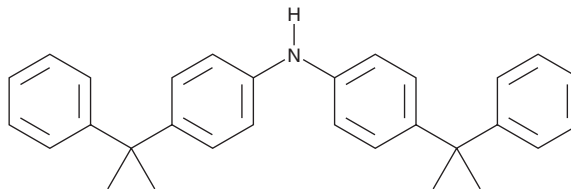
FW: 405.6

Purity: $\geq 98\%$

Supplied as: A 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

di-AMS is supplied as a solid. A stock solution may be made by dissolving the di-AMS in the solvent of choice, which should be purged with an inert gas. di-AMS is soluble (≥ 10 mg/ml) in DMSO.

Description

di-AMS is a non-*p*-phenylenediamine (non-PPD) aromatic amine antioxidant and rubber additive.^{1,2} It increases progesterone levels in NCI H295R adrenocortical carcinoma cells when used at a concentration of $1.2 \mu\text{M}$.³ It has been found in dust, handwipes, and urine.¹

References

- Guo, Z., Cheng, Z., Zhang, S., *et al.* Unexpected exposure risks to emerging aromatic amine antioxidants and *p*-phenylenediamine quinones to residents: Evidence from external and internal exposure as well as hepatotoxicity evaluation. *Environ. Health* (2024).
- Chen, X., Sun, S., Xu, P., *et al.* Rubber additives and relevant oxidation products in groundwater in a central China region: Levels, influencing factors and exposure. *Environ. Pollut.* **363(Pt. 1)**, 125155 (2024).
- Cardona, B., and Rudel, R.A. Application of an *in vitro* assay to identify chemicals that increase estradiol and progesterone synthesis and are potential breast cancer risk factors. *Environ. Health Perspect.* **129(7)**, 77003 (2021).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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