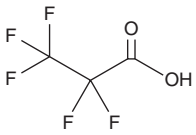
PRODUCT INFORMATION

Pentafluoropropionic Acid

Item No. 46061

CAS Registry No.: 422-64-0
Formal Name: 2,2,3,3,3-pentafluoro-propanoic acid
Synonyms: Perfluoropropionic Acid, PFPA, PFPrA
MF: $C_3HF_5O_2$
FW: 164.0
Purity: ≥98%
Supplied as: A liquid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Pentafluoropropionic acid is supplied as a liquid. A stock solution may be made by dissolving the pentafluoropropionic acid in the solvent of choice, which should be purged with an inert gas. Pentafluoropropionic acid is soluble (≥10 mg/ml) in ethanol.

Description

Pentafluoropropionic acid is a perfluoroalkyl substance (PFAS). It is a photocatalytic degradation product of perfluorooctanoic acid (PFOA; Item No. 37232) and has been found in tap and ground water.[1,2] Pentafluoropropionic acid does not decrease the viability of mouse liver organoids.[3] Formulations containing pentafluoropropionic acid have been used as ion pair reagents for liquid chromatography and mass spectrometry.

References

1. Li, F., Duan, J., Tian, S., *et al.* Short-chain per- and polyfluoroalkyl substances in aquatic systems: Occurrence, impacts and treatment. *Chem. Eng. J.* **380,** 122506 (2020).
2. Janda, J., Nödler, K., Brauch, H.-J., *et al.* Robust trace analysis of polar (C_2-C_8) perfluorinated carboxylic acids by liquid chromatography-tandem mass spectrometry: Method development and application to surface water, groundwater and drinking water. *Environ. Sci. Pollut. Res. Int.* **26(8),** 7326-7336 (2019).
3. Palazzolo, S., Caligiuri, I., Sfriso, A.A., *et al.* Early warnings by liver organoids on short- and long-chain PFAS toxicity. *Toxics* **10(2),** 91 (2022).

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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