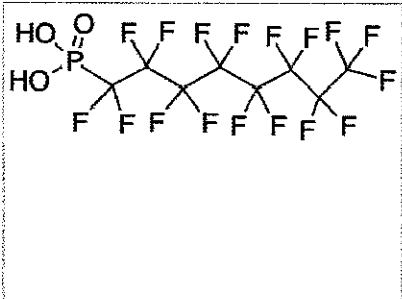


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CERTIFICATE OF ANALYSIS

1. Identification

| | | | |
|----------------------------|--|---------------------------|--|
| Catalogue Number: | P270620 | CAS Number: | 40143-78-0 |
| Product: | Perfluorooctylphosphonic Acid | Synonym: | P-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Heptafluorooctyl) phosphonic Acid; (Perfluorooctyl)phosphonic Acid; 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Heptafluorooctyl phosphonic Acid; Heptafluorooctylphosphonic Acid |
| Structure: |  | | |
| Lot Number: | 9-YEN-84-3 | Purity: | 95% |
| Shipping Condition: | This Product Is Stable To Be Shipped At Room Temperature | Storage Condition: | Hygroscopic, -20°C Freezer, Under Inert Atmosphere |
| | | Molecular Formula: | C ₈ H ₂ F ₁₇ O ₃ P |
| | | Molecular weight: | 500.05 |
| | | Source of Product: | Synthetic |
| | | Solubility: | Methanol (Slightly) |

2. Warning

| | | | | | |
|-------------------|-------------|-------------------|--|-------------------|--|
| Warning 1: | Hygroscopic | Warning 2: | | Warning 3: | |
|-------------------|-------------|-------------------|--|-------------------|--|

3. Analytical Information

| Tests: | Specifications: | Results: |
|--------------------|--------------------------|---------------------|
| Appearance | White to Off-White Solid | White Solid |
| NMR | Conforms to Structure | Conforms |
| F NMR | Conforms to Structure | Conforms |
| P NMR | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 18.75, %H: <0.1 |
| MS | Conforms to Structure | Conforms |

Additional Information: Elemental Analysis: (Theoretical) %C: 19.22, %H: 0.40**Purity is based on the analytical results of the tests performed. NMR and TLC may have an accuracy + -2%. Isotopic purity is based on mass distribution observed.**

4. Signatures

| Reviewed By | Reviewed By | C of A Approved By | Test Date | Retest Date |
|---------------|-------------|--------------------|------------|-------------|
| Steve Douglas | Neha Khanna | My Nguyen HBN | 12/13/2019 | 12/11/2023 |