

# [Perfluorotripentylamine c15f33n structure](https://assignbuster.com/perfluorotripentylamine-c15f33n-structure/)

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* Safety:

|  |  |
| --- | --- |
| Molecular Formula | C 15 F 33 N |
| Average mass | 821. 115 Da |
| Density | 1. 8±0. 1 g/cm 3 |
| Boiling Point | 235. 9±40. 0 °C at 760 mmHg |
| Flash Point | 96. 5±27. 3 °C |
| Molar Refractivity | 80. 2±0. 3 cm 3 |
| Polarizability | 31. 8±0. 5 10 -24 cm 3 |
| Surface Tension | 13. 8±3. 0 dyne/cm |
| Molar Volume | 463. 9±3. 0 cm 3 |

* Experimental data
* Predicted – ACD/Labs
* Predicted – ChemAxon
* Experimental Physico-chemical Properties

## Experimental Boiling Point:

|  |
| --- |
| 210-220 °CMatrix Scientific |
| 210-220 °CAlfa AesarL16848 |
| 210-220 °CMatrix Scientific006394 |
| 210-220 °CSynQuest24276, 3132-2-07 |
| 210-220 °COakwood[003306] |
| 210-220 °CLabNetworkLN00119083 |

## Experimental Vapor Pressure:

|  |
| --- |
| 0 mmHgSynQuest |
| 0 °CSynQuest24276 |
| 0 mmHgSynQuest24276, 3132-2-07 |

## Experimental Flash Point:

## Experimental Gravity:

|  |
| --- |
| 20 g/mLSynQuest3132-2-07 |
| 1. 94 g/mLAlfa AesarL16848 |
| 1. 94 g/mLSynQuest3132-2-07 |
| 1. 93 g/mLOakwood[003306] |
| 1. 93 g/mLFluorochem003306 |

* Miscellaneous

## Safety:

|  |
| --- |
| 23-26-37Alfa AesarL16848 |
| 36/38Alfa AesarL16848 |
| H315-H319Alfa AesarL16848 |
| IRRITANTAlfa AesarL16848 |
| IRRITANTMatrix Scientific006394 |
| IrritantSynQuest24276, 3132-2-07 |
| P280-P305+P351+P338-P362-P321-P332+P313-P337+P313Alfa AesarL16848 |
| R36/37/38SynQuest24276, 3132-2-07 |
| S23, S24/25, S36/37/39, S45SynQuest24276, 3132-2-07 |
| WarningAlfa AesarL16848 |
| XiAbblis ChemicalsAB1011009 |

Predicted data is generated using the ACD/Labs Percepta Platform – PhysChem Module

|  |  |
| --- | --- |
| Density: | 1. 8±0. 1 g/cm 3 |
| Boiling Point: | 235. 9±40. 0 °C at 760 mmHg |
| Vapour Pressure: | 0. 0±0. 5 mmHg at 25°C |
| Enthalpy of Vaporization: | 47. 3±3. 0 kJ/mol |
| Flash Point: | 96. 5±27. 3 °C |
| Index of Refraction: | 1. 275 |
| Molar Refractivity: | 80. 2±0. 3 cm 3 |
| #H bond acceptors: | 1 |
| #H bond donors: | 0 |
| #Freely Rotating Bonds: | 15 |
| #Rule of 5 Violations: | 2 |

|  |  |
| --- | --- |
| ACD/LogP: | 21. 49 |
| ACD/LogD (pH 5. 5): | 14. 09 |
| ACD/BCF (pH 5. 5): | 1000000. 00 |
| ACD/KOC (pH 5. 5): | 10000000. 00 |
| ACD/LogD (pH 7. 4): | 14. 09 |
| ACD/BCF (pH 7. 4): | 1000000. 00 |
| ACD/KOC (pH 7. 4): | 10000000. 00 |
| Polar Surface Area: | 3 Å 2 |
| Polarizability: | 31. 8±0. 5 10 -24 cm 3 |
| Surface Tension: | 13. 8±3. 0 dyne/cm |
| Molar Volume: | 463. 9±3. 0 cm 3 |

Click to predict properties on the Chemicalize site