

# [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