

# [1,8-diiodoperfluorooctane c8f16i2 structure](https://assignbuster.com/18-diiodoperfluorooctane-c8f16i2-structure/)

Contents

* Safety:

|  |  |
| --- | --- |
| Molecular Formula | C 8 F 16 I 2 |
| Average mass | 653. 869 Da |
| Density | 2. 3±0. 1 g/cm 3 |
| Boiling Point | 222. 0±8. 0 °C at 760 mmHg |
| Flash Point | 98. 5±5. 6 °C |
| Molar Refractivity | 67. 4±0. 3 cm 3 |
| Polarizability | 26. 7±0. 5 10 -24 cm 3 |
| Surface Tension | 20. 9±3. 0 dyne/cm |
| Molar Volume | 285. 8±3. 0 cm 3 |

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

## Experimental Melting Point:

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| --- |
| 75-76 °CSynQuest |
| 75-76 °CSynQuest9152, 1100-J-19 |

## Experimental Boiling Point:

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| 112 °C / 25 mmHg (235. 6772 °C / 760 mmHg)SynQuest9152, 1100-J-19 |

## Experimental Flash Point:

* Miscellaneous

## Safety:

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| Irritant/Keep ColdSynQuest1100-J-19, 9152 |
| R36/37/38SynQuest1100-J-19, 9152 |
| S3, S15, S22, S24/25, S26, S36/37/39, S45SynQuest1100-J-19 |
| S3, S15, S22, S24/25, S36/37/39, S45SynQuest1100-J-19, 9152 |

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

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| --- | --- |
| Density: | 2. 3±0. 1 g/cm 3 |
| Boiling Point: | 222. 0±8. 0 °C at 760 mmHg |
| Vapour Pressure: | 0. 2±0. 4 mmHg at 25°C |
| Enthalpy of Vaporization: | 44. 0±3. 0 kJ/mol |
| Flash Point: | 98. 5±5. 6 °C |
| Index of Refraction: | 1. 388 |
| Molar Refractivity: | 67. 4±0. 3 cm 3 |
| #H bond acceptors: | 0 |
| #H bond donors: | 0 |
| #Freely Rotating Bonds: | 7 |
| #Rule of 5 Violations: | 2 |

|  |  |
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| ACD/LogP: | 10. 56 |
| ACD/LogD (pH 5. 5): | 8. 41 |
| ACD/BCF (pH 5. 5): | 1000000. 00 |
| ACD/KOC (pH 5. 5): | 893926. 00 |
| ACD/LogD (pH 7. 4): | 8. 41 |
| ACD/BCF (pH 7. 4): | 1000000. 00 |
| ACD/KOC (pH 7. 4): | 893926. 00 |
| Polar Surface Area: | 0 Å 2 |
| Polarizability: | 26. 7±0. 5 10 -24 cm 3 |
| Surface Tension: | 20. 9±3. 0 dyne/cm |
| Molar Volume: | 285. 8±3. 0 cm 3 |

Click to predict properties on the Chemicalize site