

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

Contents

* Safety:

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| --- | --- |
| 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