

# [Trazodone hydrochloride c19h23cl2n5o structure](https://assignbuster.com/trazodone-hydrochloride-c19h23cl2n5o-structure/)

Contents

* Bio Activity:

|  |  |
| --- | --- |
| Molecular Formula  | C 19 H 23 Cl 2 N 5 O  |
| Average mass  | 408. 325 Da  |
| Density  |  |
| Boiling Point  |  |
| Flash Point  |  |
| Molar Refractivity  |  |
| Polarizability  |  |
| Surface Tension  |  |
| Molar Volume  |  |

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

## Experimental Melting Point:

|  |
| --- |
| 223-226 °CLabNetworkLN00189344  |

## Experimental Solubility:

|  |
| --- |
| 10 mM in DMSOMedChem ExpressHY-B0478  |
| DMSO 1 mg/mL; Water <1 mg/mLMedChem ExpressHY-B0478  |

* Miscellaneous

## Safety:

|  |
| --- |
| IRRITANTMatrix Scientific090825  |

## Target Organs:

|  |
| --- |
| Serotonin uptake inhibitor; 5-HT receptor antagonist; Adrenergic Receptor antagonist ; Histamine ReceptorTargetMolT1619  |

## Drug Status:

|  |
| --- |
| approvedBIONET-Key OrganicsKS-5100  |

## Compound Source:

|  |
| --- |
| syntheticMicrosource[01503121]  |

## Bio Activity:

|  |
| --- |
| 5-HT ReceptorMedChem ExpressHY-B0478  |
| GPCR/G proteinMedChem ExpressHY-B0478  |
| GPCR/G protein; Neuronal Signaling; MedChem ExpressHY-B0478  |
| NeuroscienceTargetMolT1619  |
| Sodium-dependent serotonin transporter; 5-HT receptor; Adrenergic receptor; Histamine H1 receptorTargetMolT1619  |
| Trazodone HCl is an antidepressant belonging to the class of serotonin receptor antagonists and reuptake inhibitors for treatment of anxiety disorders. MedChem Express  |
| Trazodone HCl is an antidepressant belonging to the class of serotonin receptor antagonists and reuptake inhibitors for treatment of anxiety disorders.; Target: 5-HT Receptor; Trazodone is a triazolopyridine derivative, chemically and pharmacologically unrelated to other currently available antidepressants. MedChem ExpressHY-B0478  |
| Trazodone HCl is an antidepressant belonging to the class of serotonin receptor antagonists and reuptake inhibitors for treatment of anxiety disorders.; Target: 5-HT Receptor; Trazodone is a triazolopyridine derivative, chemically and pharmacologically unrelated to other currently available antidepressants. Trazodone has been successfully used in a small number of patients with depression and pre-existing cardiovascular disease. trazodone has also been used as a hypnotic for psychotropic-induced or other insomnias with some success [1]. Trazodone is an effective hypnotic for patients with antidepressant-associated insomnia [2]. Trazodone may be helpful in men with erectile dysfunction (ED), possibly more so at higher doses, and in men with psychogenic ED. Future high-quality trials should compare trazodone with placebo and other therapies in men with depression and psychogenic ED [3]. MedChem ExpressHY-B0478  |

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

No predicted properties have been calculated for this compound.

|  |  |
| --- | --- |
| Density:  |  |
| Boiling Point:  |  |
| Vapour Pressure:  |  |
| Enthalpy of Vaporization:  |  |
| Flash Point:  |  |
| Index of Refraction:  |  |
| Molar Refractivity:  |  |
| #H bond acceptors:  |  |
| #H bond donors:  |  |
| #Freely Rotating Bonds:  |  |
| #Rule of 5 Violations:  |  |

|  |  |
| --- | --- |
| ACD/LogP:  |  |
| ACD/LogD (pH 5. 5):  |  |
| ACD/BCF (pH 5. 5):  |  |
| ACD/KOC (pH 5. 5):  |  |
| ACD/LogD (pH 7. 4):  |  |
| ACD/BCF (pH 7. 4):  |  |
| ACD/KOC (pH 7. 4):  |  |
| Polar Surface Area:  |  |
| Polarizability:  |  |
| Surface Tension:  |  |
| Molar Volume:  |  |

Click to predict properties on the Chemicalize site

* 1-Click Docking
* 1-Click Scaffold Hop