# 2H-1,4-Benzodiazepin-2-one, 1,3-dihydro-7-chloro-5-(o-fluorophenyl)-3-hydroxy

**Other names:** 2H-1,4-Benzodiazepin-2-one, 7-chloro-5-(2-fluorophenyl)-1,3-dihydro-3-hydroxy-
1,3-Dihydro-7-chloro-5-(o-fluorophenyl)-3-hydroxy-2H-1,4-benzodiazepin-2-one
OX 164F
RO 7-5205
2H-1,4-Benzodiazepin-2-one, 7-chloro-5-(o-fluorophenyl)-1,3-dihydro-3-hydroxy-
N-Desalkyl-3-hydroxyflurazepam
7-Chloro-5-(2-fluorophenyl)-3-hydroxy-1,3-dihydro-2H-1,4-benzodiazepin-2-one
Flurazepam, (N-1-des-alkyl, 3-hydroxy)
N-1-Desalkyl-3-hydroxyflurazepam
CM 40095
3-hydroxy-N-desalkyl-2-oxoquazepam
Flurazepam M (N-1-des-alkyl, 3-hydroxy)

**Inchi:** InChI=1S/C15H10ClFN2O2/c16-8-5-6-12-10(7-8)13(19-15(21)14(20)18-12)9-3-1-2-4-11(

**InchiKey:** FERBACJQVQVCKH-UHFFFAOYSA-N

**Formula:** C15H10ClFN2O2

**SMILES:** O=C1Nc2ccc(Cl)cc2C(c2ccccc2F)=NC1O

**Mol. weight [g/mol]:** 304.70

**CAS:** 17617-60-6

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 66.57 | kJ/mol | Joback Method |
| hf | -200.49 | kJ/mol | Joback Method |
| hfus | 41.89 | kJ/mol | Joback Method |
| hvap | 94.19 | kJ/mol | Joback Method |
| log10ws | -3.82 | | Crippen Method |
| logp | 2.587 | | Crippen Method |
| mcvol | 200.940 | ml/mol | McGowan Method |
| pc | 3195.54 | kPa | Joback Method |
| tb | 929.27 | K | Joback Method |
| tc | 1185.50 | K | Joback Method |
| tf | 709.51 | K | Joback Method |
| vc | 0.765 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 600.31 | J/mol×K | 929.27 | Joback Method |
| cpg | 609.70 | J/mol×K | 971.97 | Joback Method |
| cpg | 617.46 | J/mol×K | 1014.68 | Joback Method |
| cpg | 623.59 | J/mol×K | 1057.38 | Joback Method |
| cpg | 628.06 | J/mol×K | 1100.09 | Joback Method |
| cpg | 630.88 | J/mol×K | 1142.79 | Joback Method |
| cpg | 632.02 | J/mol×K | 1185.50 | Joback Method |

# Sources

**Joback Method:** https://en.wikipedia.org/wiki/Joback_method
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C17617606&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

# Legend

**cpg:** Ideal gas heat capacity
**gf:** Standard Gibbs free energy of formation
**hf:** Enthalpy of formation at standard conditions
**hfus:** Enthalpy of fusion at standard conditions
**hvap:** Enthalpy of vaporization at standard conditions
**log10ws:** Log10 of Water solubility in mol/l
**logp:** Octanol/Water partition coefficient
**mcvol:** McGowan's characteristic volume
**pc:** Critical Pressure
**tb:** Normal Boiling Point Temperature
**tc:** Critical Temperature
**tf:** Normal melting (fusion) point
**vc:** Critical Volume