# (Z)-Nuciferyl propionate

**Inchi:** InChI=1S/C18H26O2/c1-5-18(19)20-13-15(3)7-6-8-16(4)17-11-9-14(2)10-12-17/h7,9-12,
**InchiKey:** MGDICXSXKLAPND-CHHVJCJISA-N
**Formula:** C18H26O2
**SMILES:** CCC(=O)OCC(C)=CCCC(C)c1ccc(C)cc1
**Mol. weight [g/mol]:** 274.40

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 38.77 | kJ/mol | Joback Method |
| hf | -332.44 | kJ/mol | Joback Method |
| hfus | 34.18 | kJ/mol | Joback Method |
| hvap | 67.41 | kJ/mol | Joback Method |
| log10ws | -5.20 | | Crippen Method |
| logp | 4.778 | | Crippen Method |
| mcvol | 243.860 | ml/mol | McGowan Method |
| pc | 1575.95 | kPa | Joback Method |
| rinpol | 1901.00 | | NIST Webbook |
| rinpol | 1901.00 | | NIST Webbook |
| rinpol | 1910.00 | | NIST Webbook |
| tb | 722.79 | K | Joback Method |
| tc | 927.32 | K | Joback Method |
| tf | 369.68 | K | Joback Method |
| vc | 0.934 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 687.56 | J/mol×K | 722.79 | Joback Method |
| cpg | 705.25 | J/mol×K | 756.88 | Joback Method |
| cpg | 721.88 | J/mol×K | 790.97 | Joback Method |
| cpg | 737.51 | J/mol×K | 825.05 | Joback Method |
| cpg | 752.18 | J/mol×K | 859.14 | Joback Method |
| cpg | 765.94 | J/mol×K | 893.23 | Joback Method |
| cpg | 778.82 | J/mol×K | 927.32 | 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=R441704&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |