# Benzylstyrylether

**Inchi:** InChI=1S/C15H14O/c1-3-7-14(8-4-1)11-12-16-13-15-9-5-2-6-10-15/h1-12H,13H2/b12-11
**InchiKey:** JCOUEUSHQNDXNG-VAWYXSNFSA-N
**Formula:** C15H14O
**SMILES:** C(=Cc1ccccc1)OCc1ccccc1
**Mol. weight [g/mol]:** 210.27

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 275.46 | kJ/mol | Joback Method |
| hf | 105.13 | kJ/mol | Joback Method |
| hfus | 24.08 | kJ/mol | Joback Method |
| hvap | 55.90 | kJ/mol | Joback Method |
| log10ws | -4.41 | | Crippen Method |
| logp | 3.874 | | Crippen Method |
| mcvol | 176.260 | ml/mol | McGowan Method |
| pc | 2600.43 | kPa | Joback Method |
| ripol | 2619.00 | | NIST Webbook |
| ripol | 2619.00 | | NIST Webbook |
| tb | 622.54 | K | Joback Method |
| tc | 864.09 | K | Joback Method |
| tf | 328.80 | K | Joback Method |
| vc | 0.657 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 427.34 | J/mol×K | 622.54 | Joback Method |
| cpg | 500.63 | J/mol×K | 823.83 | Joback Method |
| cpg | 488.28 | J/mol×K | 783.57 | Joback Method |
| cpg | 474.87 | J/mol×K | 743.31 | Joback Method |
| cpg | 460.29 | J/mol×K | 703.06 | Joback Method |
| cpg | 444.47 | J/mol×K | 662.80 | Joback Method |
| cpg | 511.98 | J/mol×K | 864.09 | Joback Method |
| dvisc | 0.0001133 | Pa×s | 622.54 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0001467 | Pa×s | 573.58 | Joback Method |
| dvisc | 0.0001995 | Pa×s | 524.63 | Joback Method |
| dvisc | 0.0002889 | Pa×s | 475.67 | Joback Method |
| dvisc | 0.0004555 | Pa×s | 426.71 | Joback Method |
| dvisc | 0.0008083 | Pa×s | 377.76 | Joback Method |
| dvisc | 0.0017011 | Pa×s | 328.80 | Joback Method |

# Sources

| | |
|---|---|
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **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=R397994&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **dvisc:** | Dynamic viscosity |
| **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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |