# Benzene, (2-chloroethoxy)-

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| **Other names:** | Phenetole, «beta»-chloro- |
| | «beta»-Chlorophenetole |
| | (2-Chloroethoxy)benzene |
| | 1-Phenoxy-2-chloroethane |
| | 2-Chloroethyl phenyl ether |
| | 2-Phenoxyethyl chloride |
| | «beta»-Phenoxyethyl chloride |
| **Inchi:** | InChI=1S/C8H9ClO/c9-6-7-10-8-4-2-1-3-5-8/h1-5H,6-7H2 |
| **InchiKey:** | VQUYNUJARXBNPK-UHFFFAOYSA-N |
| **Formula:** | C8H9ClO |
| **SMILES:** | ClCCOc1ccccc1 |
| **Mol. weight [g/mol]:** | 156.61 |
| **CAS:** | 622-86-6 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 11.96 | kJ/mol | Joback Method |
| hf | -119.88 | kJ/mol | Joback Method |
| hfus | 15.90 | kJ/mol | Joback Method |
| hvap | 42.47 | kJ/mol | Joback Method |
| ie | 8.50 | eV | NIST Webbook |
| log10ws | -2.16 | | Crippen Method |
| logp | 2.304 | | Crippen Method |
| mcvol | 117.930 | ml/mol | McGowan Method |
| pc | 3423.86 | kPa | Joback Method |
| rinpol | 1190.20 | | NIST Webbook |
| tb | 468.97 | K | Joback Method |
| tc | 683.94 | K | Joback Method |
| tf | 258.49 | K | Joback Method |
| vc | 0.443 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|

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|---|---|---|---|---|
| cpg | 224.00 | J/mol×K | 468.97 | Joback Method |
| cpg | 235.86 | J/mol×K | 504.80 | Joback Method |
| cpg | 247.07 | J/mol×K | 540.63 | Joback Method |
| cpg | 257.64 | J/mol×K | 576.45 | Joback Method |
| cpg | 267.58 | J/mol×K | 612.28 | Joback Method |
| cpg | 276.92 | J/mol×K | 648.11 | Joback Method |
| cpg | 285.68 | J/mol×K | 683.94 | Joback Method |
| dvisc | 0.0025678 | Pa×s | 258.49 | Joback Method |
| dvisc | 0.0013502 | Pa×s | 293.57 | Joback Method |
| dvisc | 0.0008143 | Pa×s | 328.65 | Joback Method |
| dvisc | 0.0005415 | Pa×s | 363.73 | Joback Method |
| dvisc | 0.0003868 | Pa×s | 398.81 | Joback Method |
| dvisc | 0.0002918 | Pa×s | 433.89 | Joback Method |
| dvisc | 0.0002296 | Pa×s | 468.97 | Joback Method |

# Sources

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|---|---|
| **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=C622866&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 |
| **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 |
| **ie:** | Ionization energy |
| **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 |

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