# 2H-Pyran, tetrahydro-, 2,6-dibutoxy

**Other names:** 2,6-Dibutoxy-tetrahydropyran
**Inchi:** InChI=1S/C13H26O3/c1-3-5-10-14-12-8-7-9-13(16-12)15-11-6-4-2/h12-13H,3-11H2,1-2H
**InchiKey:** PLYVDYQDYJXNKA-UHFFFAOYSA-N
**Formula:** C13H26O3
**SMILES:** CCCCOC1CCCC(OCCCC)O1
**Mol. weight [g/mol]:** 230.34

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -220.80 | kJ/mol | Joback Method |
| hf | -674.11 | kJ/mol | Joback Method |
| hfus | 32.69 | kJ/mol | Joback Method |
| hvap | 53.98 | kJ/mol | Joback Method |
| log10ws | -3.63 | | Crippen Method |
| logp | 3.472 | | Crippen Method |
| mcvol | 200.780 | ml/mol | McGowan Method |
| pc | 1830.98 | kPa | Joback Method |
| rinpol | 1420.00 | | NIST Webbook |
| rinpol | 1420.00 | | NIST Webbook |
| rinpol | 1420.00 | | NIST Webbook |
| tb | 583.51 | K | Joback Method |
| tc | 770.10 | K | Joback Method |
| tf | 310.44 | K | Joback Method |
| vc | 0.752 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 543.11 | J/mol×K | 583.51 | Joback Method |
| cpg | 634.54 | J/mol×K | 739.00 | Joback Method |
| cpg | 618.04 | J/mol×K | 707.90 | Joback Method |
| cpg | 600.64 | J/mol×K | 676.80 | Joback Method |
| cpg | 582.35 | J/mol×K | 645.71 | Joback Method |
| cpg | 563.18 | J/mol×K | 614.61 | Joback Method |

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|---|---|---|---|---|
| cpg | 650.17 | J/mol×K | 770.10 | Joback Method |
| dvisc | 0.0001529 | Pa×s | 583.51 | Joback Method |
| dvisc | 0.0002008 | Pa×s | 538.00 | Joback Method |
| dvisc | 0.0002775 | Pa×s | 492.49 | Joback Method |
| dvisc | 0.0004095 | Pa×s | 446.98 | Joback Method |
| dvisc | 0.0006601 | Pa×s | 401.46 | Joback Method |
| dvisc | 0.0012020 | Pa×s | 355.95 | Joback Method |
| dvisc | 0.0026096 | Pa×s | 310.44 | Joback Method |

# Sources

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=R90854&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
**Joback Method:** https://en.wikipedia.org/wiki/Joback_method

# 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
**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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